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March 2004
Volume 75
No. 3
\$7.00

Electric Strikes and Mag Locks



No, it's not a Blitz™ Machine!

It's the **Switch Blitz™** 2 Machines in 1 - Cut by Code and Duplicate!

*"Wrap it up,
I want it now!"*

*"This is perfect
for my van!"*

"I love this idea!"

*"This is just
what I need!"*

"Genius!"

*Just a few of the
comments made by
locksmiths after seeing
the Switch Blitz™.*

No. 1233CMSB

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- If you only have space for one key machine...
- If you love the Blitz™, but really need a duplicator...

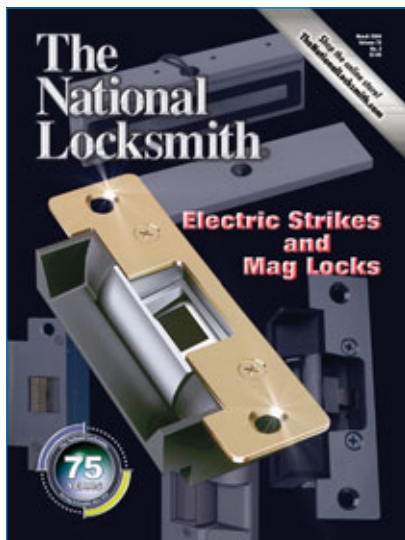
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On The Cover...



The who, what, where and when on electric strikes is addressed, answering questions we have all had at one time or another.

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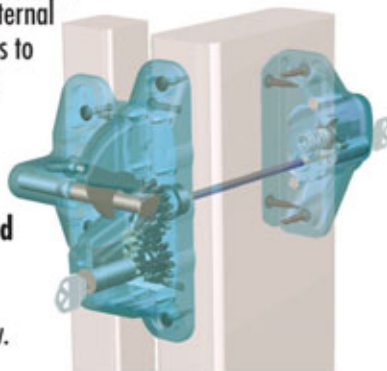


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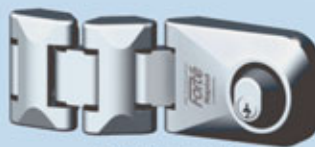
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"Hinged" model on vending machine

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Circle 211 on Rapid Reply



COMMENTARY



Thoughts on war, politics and locksmiths

Pfc. Daniel Hebert, a locksmith from Stoddard, N.H., will head to Iraq trained as a truck driver and combat life-saver with the company. He joined the National Guard last year and he, like others, follows in a family tradition of military service.

Hebert, 22, is the son of a Vietnam veteran who spent 39 years in the Army. A bachelor, he has a bet with his father that he can post a 40-year military career and earn a Silver Star medal. As he leaves, he will carry with him a World War II medallion given to him by a friend.

"It's going to be hot. It's going to be scary. Anyone who says they're not scared is a liar," he said. "To have courage, it's kind of hard to describe. It's doing your job in the presence of fear."

There are locksmiths in Iraq. There are locksmiths in Afghanistan. They are wearing the uniform of the United States military. They have gone into harm's way to perform their duty and service to the American people.

There are about 120,000 Army soldiers in Iraq, a figure expected to drop to 105,000 by May, according to the Pentagon. About 330,000 active and reserve Army troops are deployed to 120 countries. Another 10,000 soldiers are in Afghanistan.

How many of these men and women are locksmiths is not known. Not all of those serving are even American citizens. Did you know that at least one soldier, a citizen of a central American country, was awarded US citizenship after he was killed in combat, serving in the US Army?

So we have brothers and sisters abroad, in the desert, in the mountains, far from home, risking their lives. Here at home, we have the luxury of time and comfort to debate the right and wrong of the Iraq war. We can argue the politics of

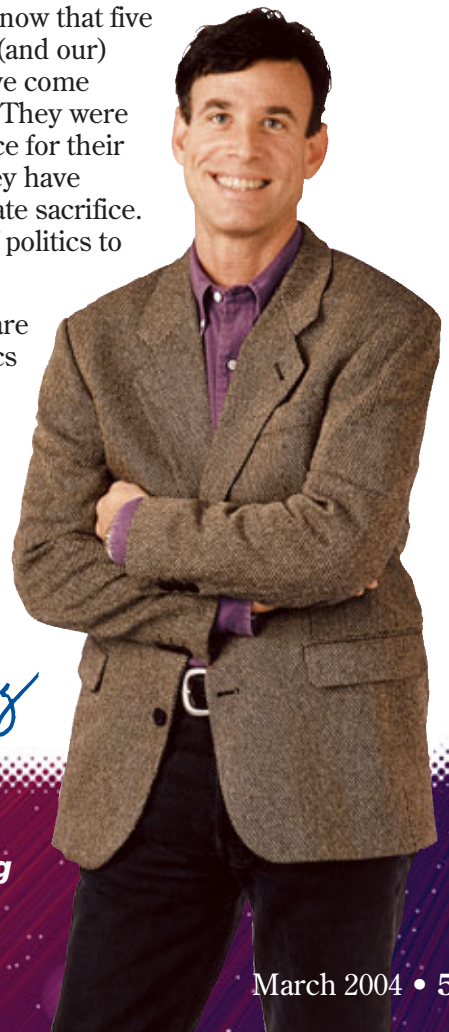
terrorism, WMD, what Bush did, didn't do, and should have done, but they don't have that luxury. For locksmiths and other Americans deployed far from home, the luxury consists of an e mail from home, or a phone call.

I too, have my opinions on the war, the unfound (maybe nonexistent) WMD, the politics of it, the question of should we spend more effort on finding Osama who attacked us, and less on Iraq who only attacked each other...

When I saw the story above, the one about Daniel Hebert, a locksmith, twenty-two years old, a young man really, it gave me a point of connection to him. A locksmith, only twenty-two leaves his family, friends, loved ones and his business and he goes to war.

We already know that five hundred of his (and our) compatriots have come back in coffins. They were asked to sacrifice for their country and they have made the ultimate sacrifice. There is a lot of politics to this.

But I don't care about the politics of it at this moment. I just hope that locksmith...that kid...comes home safe.



Have questions? Want free technical help?
Free Locksmith Forums!

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Marc Goldberg
Publisher

Mango's Message

STRATTEC's New Marketing Approach

An age-old issue in this industry has always been locksmiths buying through distributors, and locksmiths buying direct from a manufacturer. Traditionally, manufacturers either sold *all* their products direct to locksmiths, or *all* their products through distributors.

Mostly, manufacturers prefer to concentrate on the process of designing and fabricating new products, leaving distribution to the wholesalers. A few manufacturers play both roles on some, or all of their products. Rarely, though, does an important manufacturer change strategies from selling all their products through the distributor, but make an exception for a *single* product, which they sell direct. That, however, is just what STRATTEC is doing.

STRATTEC is tackling transponder diagnostic tool issues in a new way, selling a fully outfitted CODE-SEEKER automotive diagnostic tool directly to locksmiths. That decision is sure to ruffle a few distributor feathers. This arrangement only applies to the CODE-SEEKER tool according to STRATTEC; other product purchases will still go through distributors as always.

According to STRATTEC, their research and customer discussions have revealed one thing that is repeatedly mentioned as a significant hurdle facing the automotive locksmith today — the availability of an affordable diagnostic tool that will be current and inexpensive in the future. STRATTEC believes that selling and supporting the CODE-SEEKER direct to locksmiths, is the most effective way to keep them abreast of transponder technology.

By taking the direct market approach, STRATTEC is offering the CODE-SEEKER at a reduced price when compared to competitive products. *(That, however, may not necessarily be the case when other manufacturers learn of STRATTEC's price structure.)* In addition, any locksmith purchasing the CODE-SEEKER will receive all software upgrades free through 2004. As an incentive, and to reduce the cost of future upgrades, for every STRATTEC transponder key that a locksmith buys from an authorized STRATTEC distributor, STRATTEC will credit \$1.00 toward the cost of the annual upgrade subscription, up to \$499. So any locksmith that buys 499 transponder keys from a distributor will get their annual upgrades free.

So, what do you think about STRATTEC selling the CODE-SEEKER product direct? As with any issue in life, the opinions will vary depending on which side of the fence you are standing on. For locksmiths it appears to be a pretty good deal, right? You can now call STRATTEC *direct*, which always lends a level of stature. You reap an initial monetary savings. That's always good, right? Now when you have a problem, question, or need an exchange you can go directly to the source. After all, who would be more knowledgeable or better at handling questions, comments, or problems than the direct source? STRATTEC's decision to make the CODE-SEEKER's cost more competitive may cause other transponder diagnostic tool manufacturers to re-examine their price structure. That's good, right?

As expected, most of the locksmiths I spoke with shared those exact sentiments, supporting STRATTEC's decision to sell direct to them.

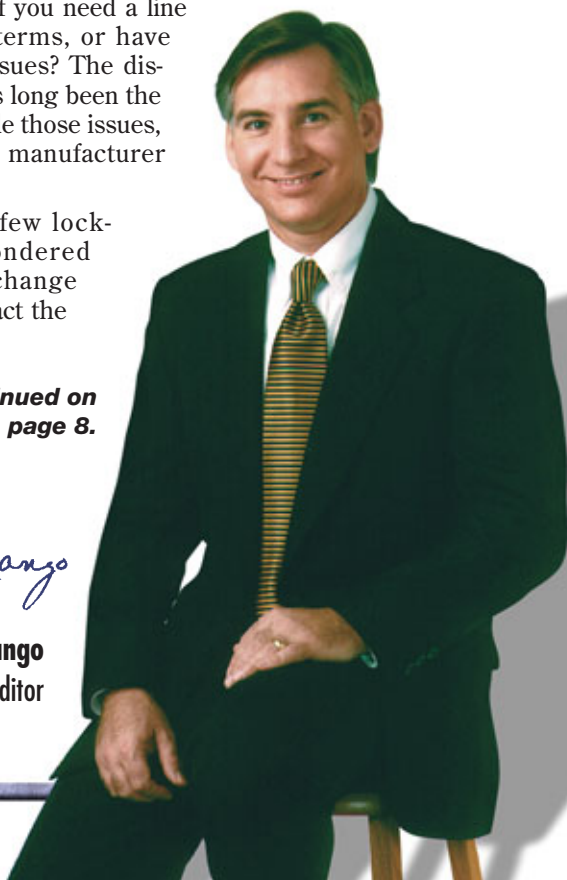
But, what if you need a line of credit, terms, or have financial issues? The distributor has long been the one to tackle those issues, so will the manufacturer as well?

Only a few locksmiths wondered how this change would impact the

**Continued on
page 8.**



Greg Mango
Editor



Prices good thru May 1, 2004



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Best Price

\$4.95 No. 598333 Ford PATS II	\$11.95 No. 599114 Ford PATS III	\$11.95 No. 599179 Merc. PATS III	\$7.95 No. 691643 Ford	\$8.95 No. 690222 Chrysler
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Focus, Escape Etc. ref. H74PT / H86PT

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\$29.95

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Replacement electric strike. 11-16VAC, 11-16VDC. Replaces 1501 or 001.

New RCI 6 Series "All-in-One" Strike

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No. DL2700-26D \$273
Cylinder key override standard. (SC1). Non-handed, assures versatility & ease of retrofit. 2-3/4" backset. For 1-5/8" to 1-7/8" doors. Uses 5 AA batteries.

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111 - 115	121 - 125
141 - 145	151 - 155

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Millions of transponder equipped cars are on the roads today and most new models will be too! Is it time to consider expanding your auto locksmithing business?

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As above with a carbide cutter

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IL-045 110v \$429.00
Popular duplicator for cyl. keys

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THE LOCKSMITH STORE

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Continued from page 6

purchasing of other STRATTEC products through their distributors, or if the grass really would be greener dealing direct.

I spoke to a half dozen distributors from around the country for their comments on this issue. The decision to go direct with the CODE-SEEKER is not sitting well with them. Every distributor was upset at how they were notified of the changes taking place (via a letter) adding to the fact that they were not consulted on the issue, or had other alternatives considered. All said they would have accepted a narrower profit margin on CODE-SEEKER if necessary to maintain the status-quo. However, that was not an option offered.

None of the distributors I spoke with were so upset as to be dropping the STRATTEC product line, but most are waiting to see how the strategy works.

This marketing move by STRATTEC sure appears to be a win-win situation for the locksmith, doesn't it? However, on the flip side of the coin, there can be some disadvantages as well. One can often be shortsighted by price alone, and not consider the other necessary support or services involved with a product that may normally be provided by the distributor.

There are many advantages to dealing with a distributor. Most manufacturers are not set up and structured to provide the customer service a distributor can, and should provide. That is oftentimes not a manufacturer's purpose or function. Their purpose is to manufacture products. A distributor's purpose is to stock, sell, disseminate, promote, educate, provide technical support, product exchanges, and often, finance programs via terms or credit for manufacturers products. Distributors provide a valuable service many manufacturers are not prepared to do. That's why distributors exist.

When I spoke to a STRATTEC representative, he agreed that the purpose and function of a distributor is all the above, however, STRATTEC believes that the distributor support (probably) does not, and will not extend to a tool that is as complex as the CODE-SEEKER. One of the driving decisions to take the CODE-SEEKER direct to market as they have is because STRATTEC will, and is, still going to receive the technical support calls. STRATTEC feels that the distributor isn't going to be in a position to keep up with the technology and knowledge to answer beyond the most rudimentary questions relative to the tool, and prefers that those calls be handled by STRATTEC, sighting that most distributors will direct those calls to them anyway.

STRATTEC has an understandable desire to sell their CODE-SEEKER tool. By making it less expensive to the locksmith, it obviously makes it more attractive and obtainable. But, what if *all* distribution was direct? Would you then be able to buy one key blank? How about one facecap, clip, or plug? Manufacturers would have to get a lot busier in the customer service and shipping depart-

ment to handle all those little locksmith orders, or would locksmiths then have to start ordering those 690648 Mitsubishi blanks by the 24-pack to assure stock? *"What do you mean they're back-ordered? When do you expect to have more? But, I need them now! Well, I'll just call someone else to get them... Oh, wait, there is no one else... how long did you say it would take?"*

Distributors buy millions of keys a year so *you don't have to*. They stock those keys along with every other product they carry which sits on a shelf, tying up their money and their space so *you don't have to*. By doing so, you can get one key blank, one part, or even a product exchange when you need it.

It is tempting sometimes to think completely from the "cheaper-is-better viewpoint." But, have you ever shopped at one of those mega-warehouse stores like Sam's Club or Costco? If so, I'm sure you know that you can't buy a single jar of peanut butter, or a 6-pack of toilet paper, or one can of soda. Instead, to get warehouse pricing, you must purchase in *warehouse super bulk quantities*. I'm talking enough peanut butter to feed an army, and enough toilet paper to... well, you get the picture.

The issue raised by the marketing of this one tool is bigger than just this example. It should cause us to remember how products traditionally have worked their way from manufacturer to distributor to locksmith, and the relationship between those parties.

The market will always dictate what works and what doesn't. The channel of distribution has worked well for a very long time, and there is a reason why it has. I fully expect it will continue to do so in the future. STRATTEC may have some feathers to smooth over with their distributors, but you can't be in business and not ruffle some feathers once and a while. We have ruffled some ourselves from time to time, it happens. However, obstacles, differences or disagreements can usually be worked out through good communication.

I'm sure that STRATTEC and its distributors will work through this rough spot, especially because there should be at least one benefit to both locksmiths and distributors on this matter... selling keys! STRATTEC is in the business of selling keys and locks, and this is an effort to increase the sales of — in particular — transponder keys. It is STRATTEC's perspective that this program will be an effective way to keep the locksmith equipped to do transponder automotive work. That would in turn increase key sales through the distributors, benefiting all.

Only time will tell if STRATTEC's marketing move on this one product will be a success, leaving it, the distributors, and locksmiths, satisfied with the results. One thing is for sure though, and that is that the manufacturer, distributor, locksmith triangle still enables each party to accomplish more as a group, than they would individually.

TNL

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Circle 206 on Rapid Reply

Letters

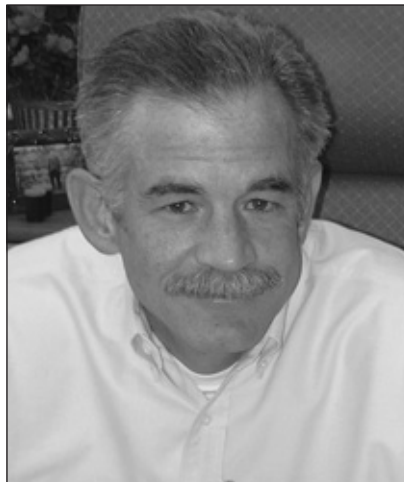
The National Locksmith is interested in your view. We do reserve the right to edit for clarity and length.

In Memory of Mike Cain

It is with great sadness that Securitron Magnalock Corporation announces the passing of Michael Cain, Marketing and Business Development Manager for the company. Following a brave battle against the brain cancer discovered in late October, Mike passed away peacefully in his home in Reno, NV on Sunday, December 21, 2003.

Mike had been with Securitron for 3 years, having come from American Videotape, where he had been President for over 10 years. He began with Securitron as National Sales Manager, overseeing the Electronic Representatives. As Marketing and Business Development Manager, he worked closely with representatives from ESSEX Industries as well as the ASSA ABLOY Group sister companies.

Professionally and personally, Mike touched many lives with his wit, his sense of humor and his



business acumen. He will be missed not only by his friends and family, but by Securitron and the ASSA ABLOY Group as a whole.

Memorial donations may be made to Heritage Bank of NV, Michael Cain Memorial Fund, (775-348-1000). The funds will be donated to St Mary's Hospital and Cancer Research.



- Customers (your) name
- Customer's partial home address
- Hotel room number
- Check in date and check out date
- Customers (your) credit card number and expiration date!

When you turn them in to the front desk your personal information is there for any employee to access by simply scanning the card in the hotel scanner. An employee can take a hand full of cards home and using a scanning device, access the information onto a laptop computer and go shopping at your expense. Simply put, hotels do not erase these cards until an employee issues the card to the next hotel guest. It is usually kept in a drawer at the front desk with your information on it.

The bottom line is, keep the cards or destroy them! NEVER leave them behind and NEVER turn them in to the front desk when you check out of a room. They will not charge you for the card.

Sergeant K. Jorge
Pasadena Police Department

Continued on page 12

Hotel Swipe Card Safety Tip

Southern California law enforcement professionals assigned to detect new threats to personal security issues, recently discovered what type of information is embedded in the credit card type hotel room keys used through-out the industry. Although room keys differ from hotel to hotel, a key obtained from the "Double Tree" chain that was being used for a regional Identity Theft Presentation was found to contain the following information:

The National Locksmith
1533 Burgundy Parkway
Streamwood, IL 60107
Attn: Editor

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Web Site: www.boyleandchase.com E-mail: sales@boyleandchase.com

Circle 209 on Rapid Reply

I Got Them To Stop

In October of 1999 I called *The National Locksmith* to see what I could do to get the police to stop doing auto lockouts. Marc said there was little I could do. Well, I got them to stop! This is how the story begins.

I was called to the local college to open two cars. When I arrived they had already been opened by a local police officer and I lost the call and my fee. O.K., that has happened before, but the attitude of the officer really ticked me off. I went to the Chief of Police and complained. He stated that the local council and the city manager wanted the police to open cars. I know for a fact that more than a few officers do not want to do this. He said if I could get the other local locksmiths to come to a meeting with him, he may be able to present a good case to the council and city manager.

The meeting was set up for October 31, 1999. We met with the Chief and he heard our complaints. He stated that if we were able to set up a dispatching service like the tow truck companies, we would have a chance. On December 23rd I received a call from the Police Chief, he told me that the city council and the city manager had approved our proposition. He informed me that after January 15, 2000, the police would no longer do any car openings.

Sometimes it pays to try and set a wrong, right again.

Thanks.

*Ted Davis
E-mail*

Correct Curtis Info

I'd like to compliment the Beginners Corner by Ken Holmlund, Basic Automotive Series, Part 1. However, the information about Curtis Industries on Page 67 isn't correct. Three years ago we moved, our current and correct address is...Curtis Industries, phone 216-430-5522 or 800-867-5397 (KEYS), fax 800-867-6020, Email SecurityProducts@barnesdistribution

.com, Email Joe.lascio@bd-bgi.com, website
www.barnesdistribution.com.

Thanks

*Joe Lascio
Locksmith Division Curtis Industries*

Embarrassing Moments

How many locksmiths does it take to break into their own locked van? Three.

How long does it take? An hour.

The key to understanding this crazy caper is that three clueless klutzes who worked for a Brooklyn, NY locksmith company, recently locked themselves out of their van. They did so on Nevins Street in downtown Brooklyn—leaving passers-by in stitches.

Realizing they were locked out, the luckless locksmiths fell to work. Using a screwdriver, they tried to pry open a door so they could get a coat hanger inside. That, in turn, set off the alarm.

"They looked so embarrassed," said Jonathan Hall, who witnessed the comedic scene. Hall photographed the sorry smiths and then went to get the film developed. When he got back, they were still at it.

When a reporter called the company for comment, the company representatives showed a similar lack of finesse. A man claiming to be the manager threatened to sue *The Post* after spewing some rather harsh words.

*Jennifer Gould, Andy Geller
From the New York Post*

Cannonball Hinge Help

Our local bank has a large Hibbard, Rodman, Ely Cannonball safe. I am having trouble adjusting the door. We adjust it and it works fine for a while then it gets out of whack again. Any suggestions from anyone?

I can be reached by fax at: (712) 324-2233.

*Don Huisman
Iowa*

Steak Knife Opening

I was just reading the Technitip from Larry Bors of Oklahoma, on opening a Kwikset knob with a steak knife. I think that is a good

trick for the average person to open the bedroom of their teenage child, but not as a professional tool. We constantly hear how locksmith's need to clean up our image. Well, showing up on a job with a steak knife falls well short of a cleaned up image, so here is my tech tip. Get an HPC pick and tension wrench (or the brand of your choice) and pick the lock. After all that is what separates us from the average Joe steak knife holder.

*Jeff Hutchinson
Colorado*

Unknown Safe

I have researched my past issues of *The National Locksmith* and found no references to this particular safe. My Cole references



show that miniature, Center Mfg. type locks are used. After drilling a hole through the edge of the container (1-1/2" from the front) and into the door, it was revealed that this lock was not used. What I saw with my scope appeared to be a spindle tube. I then concluded that the lock would be a 6730 S&G type lock and could be attacked as such. Attempts to pull the dial and drill for a VD configuration failed. The dial would not pull with reasonable force. This led me to an impasse. Without specific servicing information I am at a loss to open this safe. Anyone that can be of assistance I would appreciate any help you can offer. I can be reached at: (360) 929-5650.



*R.W. Staples
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Infiniti Key Blanks

Jet Hardware's INFQ45-PHT transponder key blank will operate all Infiniti Q45 automobiles that were manufactured from



1997-2001. According to the manufacturer, the key blank has been thoroughly tested and is guaranteed to operate with all diagnostic equipment currently on the market. Jet says the keys for on-board and diagnostic equipment are equipped with OEM transponders.

SARGENT Manufacturing's Low Profile Access Control Products

SARGENT introduces a new line of low profile access control devices. These electromechanical locks combine innovative design with keypad only, proximity only or keypad



and proximity for the highest level of security and flexibility. They are available for bored-in locks, mortise locks and exit devices in nine architectural finishes and several lever designs. The full-feature electronics package offers: 500 users, 1,000 transaction audit trail, real time and date. The full-feature electronics require the new SofLink Plus™ Software to program real time and date, auto relock and other features. HID technology is incorporated for proximity card or fob usage.

Ilco Window Locks

Kaba Ilco Corp. offers a variety of window and patio door locks for added security to homes. Keyed

locks are available for sash type windows and offer the option of having one key to operate multiple locks. The patio door locks fit into the track and are also available for sliding windows. These locks prevent the window or door from sliding and offer partial opening for ventilation. All the locks offer consumer friendly installation.

Adams Rite Mfg. Expands Access Control Line

Adams Rite Manufacturing Company has added a number of electrical products to their access control line.



The new PS-1 Power Supply provides filtered and regulated voltage output for powering electric strikes, magnetic locks, electrified rim exit devices and other access control devices. Power output of 1 amp is selectable in the field for 12 or 24 volts DC. The heavy-duty enclosure of the PS-1 houses an

integrated charging circuit for automatically keeping the backup batteries charged. The PS-1 offers dependable power for a number of access conditions and security requirements.

Also new to the Adams Rite product line are keypads, push buttons, and key switches, for meeting a variety of application needs. The line of keypads available include a heavy-duty model for narrow surface installations and a sleek, slimline model with up to 500 programmable user codes. Push buttons are available with a narrow faceplate for single gang electrical boxes, with illuminated buttons and an electrical life rated to 100,000 activations. The narrow or single gang mounted key switches work with most mortise cylinders that have different cam types. They provide simple key activation, with momentary or maintained function, for one or two switches.

Klein Adds Two Pliers to Journeyman Line of Tools

Klein Tools has added two, side cutting, longnose pliers to its Journeyman line of premium tools for trade



hand and provides a firmer grip. The harder black material on the inner-surface and handle ends is designed for extra toughness and durability in harsh

work environments.

professionals. The two new long nose pliers measure 6-5/8" and 7-1/8" in overall length. They join the existing 8-1/2" long pliers previously introduced by Klein. Journeyman pliers feature a state of the art dual material handle design that gives the tool a better more comfortable grip without sacrificing handle strength or durability. The soft, outer-surface handle material feels more comfortable in the

The new long-nose pliers also feature side-cutting knives at the hinge for cutting wire, induction hardening of those knives for long tool life, knurled jaws for bending and forming wire, a hot riveted joint for smooth action with no handle wobble, a contoured thumb area with a flared thumb rest for added comfort and a positive feel, and a color-coded yellow

handles for quick tool identification.

Lockmantools Multi-Tool

The locksmith Multi-Tool by Lockmantools has over 25 specific locksmith functions. Designed by a locksmith for locksmiths, the tool can service a variety of different hardware for



Schlage, Baldwin, Corbin/Russwin, Lori, Adams Rite, Master padlocks, Medeco, Arrow, Jackson crossbars and many others, the company says. The tool is made of bead blasted stainless steel for extra durability and folds up to 4 inches closed. A ballistic cloth carrying case clips onto the user's belt for fast access and convenience.


Inkas Safe Mfg. Adds New Safes


Inkas Safe Manufacturing's directive to increase sales and distribution has resulted in



Continued on page 18







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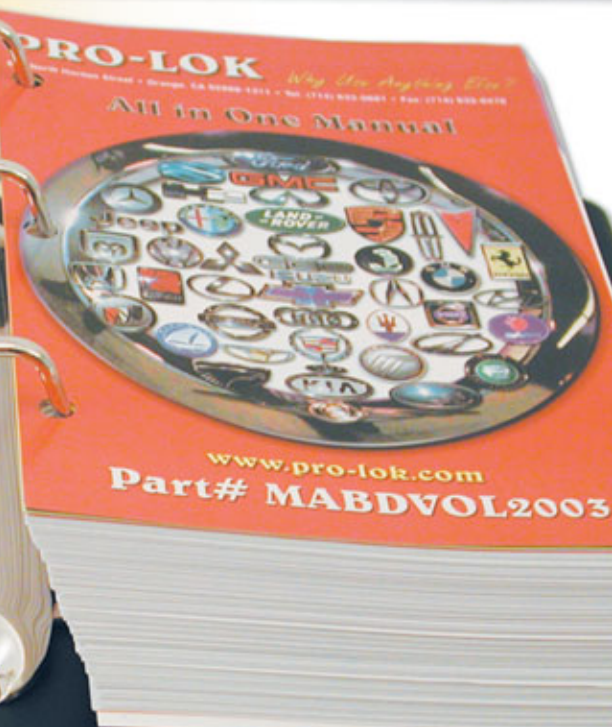
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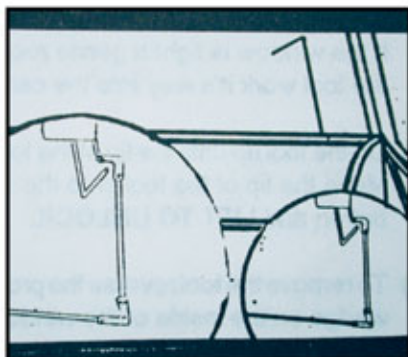


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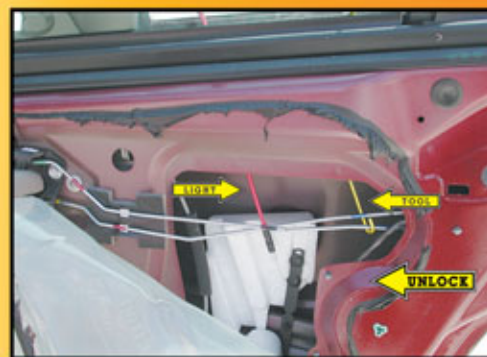
A Picture is worth a thousand words. Our full color High Resolution Photos show you clearly where the linkage is located, what to use as a point of reference, what may be in your way, wiring to avoid and so much more. We also color our tools (gold) for easy identification in the photo. We also use arrows to provide opening guidance. Our manuals include color photos of each opening method.



STICK DRAWINGS

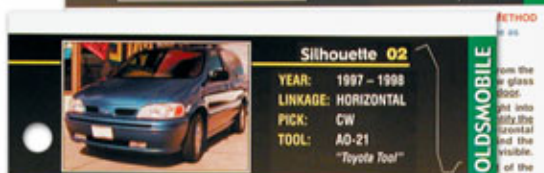


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PREFERRED OPENING METHOD

1. Insert a wedge at 13" and a wedge at 19" from the rear edge of the door frame of the front passenger door.
2. Insert an inspection light into the door cavity and identify the red covered horizontal rods located in the center of the door cavity.
3. Insert the L end of an AO01 "Slide Lock Tool" at 16" from the rear edge of the door frame, tip facing forward. (Photo 2)
4. Lower the AO01 15" into the door cavity. Rotate the tool 90° counter-clockwise and set down on top of the lower horizontal rod covered with white nylon netting. When the tip of the tool is over the lower horizontal rod, you will see the button move. (Photo 3)
5. Slide the horizontal rod forward to unlock the door.



ALTERNATE OPENING METHOD

1. Insert a wedge at 8" rearward of the interior door lock button of the front passenger door.
2. Insert an AO05 "MCOT-Wide Tool" at 5" forward of the interior door lock button, tip facing forward.
3. Lower the AO05 into the door cavity. Rotate the tool beneath the bottom edge of the window glass. Remove the wedge.
4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool 45° counter-clockwise and position the tip of the tool under the interior lock-unlock button. (Photo 4)
5. Lift the lock-unlock button to unlock the door.

Our book is layed out alphabetically by manufacturer. Within each manufacturer- each model is alphabetical... You want to know how to open a 1997 Oldsmobile Silhouette? Go to the Oldsmobile section, turn to Silhouette..you will see Silhouette page 01 covers 1990 - 1996.. pg 02 covers 1997 - 1998 & page 03 covers 1999 to current models. So turn to page 02 and use either method shown. It's that easy to look up a car. No guesswork involved. No gaps- or questions of which method to use.

Additional features that each page includes:
Which model years the opening method covers, linkage type, pick direction, tool used, notes regarding introductions, redesigned models, discontinued models, which vehicle has the same opening method due to the manufacturer using the same body, pertinent instructions and details are underlined for quick visual reference. Alternate method on same page.

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Continued from page 15

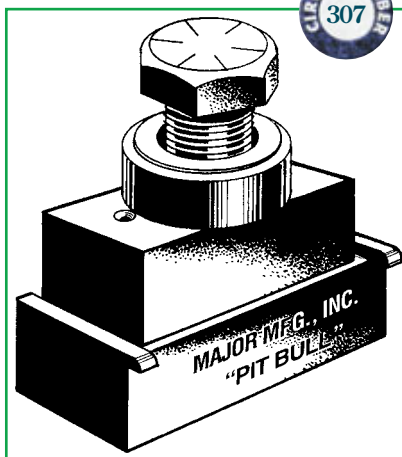
expansion and new product introductions. In the last six months Inkas has added B Rated Safes, Floor Safes, Fire Safes and Fire Cabinets. These quality items in addition to their existing line of cash handlers, depositories, fire/burglary composite safes, TL30's and customized safes, offers you a complete line to service all your customers needs. At Inkas they listen to what their dealers and distributors tell them they require in both their new products and existing product, to improve and help grow

their business. This is ongoing at Inkas. So watch for more new product lines in the future. Join their team and let them help you grow your business.

Major Manufacturing Pit Bull

The Pit Bull tool is used to form a rectangular pocket in the edge of a hollow metal door. Application of the tool is almost effortless; simply drill the latch and cross bore holes and install the Pit Bull. Using a few turns

with a wrench will squeeze an indentation into the door's edge.



The result is a pocket that will accept both 1" and 1-1/8" wide by 2-1/4" tall latches.

EMLocks with Lifetime Upgradeability and Serviceability



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sensors, coils and electronics in minutes. The need for replacement locks, shipping lead-time and replacement labor is eliminated. 1200lb and 1650lb EMLocks utilize identical templates and are interchangeable without additional preparation. The identical interlocking EZ Mount assemblies shave several costly minutes off installation time.

Marks USA Aligning Tool Speeds Installation

Marks USA simplifies and hastens the installation of its Survivor Series key-in-lever locksets with the NEW J295 installation tool. The J295 thru-bolt installer is a rugged, self aligning tool with hardened drill bushings, drill bit, and an adjustable edge guide; one edge for 2-3/4" backset, the other, for 2-3/8". It's designed for use with either wood or metal doors providing 5/16" thru-bolt holes on 2-3/4" centers.

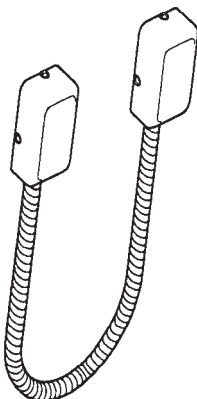


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EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT

ELECTRIC DOOR STRIKES

BUT WERE AFRAID TO ASK!

by Kevin Davison, Technical Services Coordinator for RCI

All tradesmen are perceived as experts in their field. If we weren't, no one would have any faith in our abilities and would never call us back (shudder!). As a result of this opinion it can often be difficult to resort to researching problems with an installation (wives refer to this as "asking for help" or more likely "asking for direction,"). Every now and again we have to admit, even if only to ourselves, that we've run up against something that we don't know. Obviously it can be uncomfortable to make the customer aware that there is a problem we can't solve with our current experience level. That doesn't mean that the problem is insurmountable, only challenging.

Often the answers can be found in magazines, or books, the really tough ones might require a call to a buddy in the trade, or maybe some time searching the Internet. If the problem is product related, sometimes a manufacturers rep or tech support line can be of assistance.

Let's face it; all of these are generally a last resort. Everyone likes to be able to solve a problem using their own head and skills. The title may be a little well worn, but with best of luck this article will provide the information required to handle some basic door strike problems and put the solutions in the front of mind. Without belaboring this further lets move on to the commonly asked questions and, more importantly, the answers.

Q. *What is the difference between a "fail safe" lock and a "fail secure" lock?*

A. A "fail safe" lock is a lock that will allow the door to be opened if the lock fails. Essentially this is a type of lock that fails on the side of safety for the building occupants and releases whenever power is

removed. Power must be applied to the lock to secure the door and the door will unlock again when power is removed. An electromagnetic lock or "maglock" is an excellent example of a "fail safe" or "fail unlocked" lock.

A "fail secure" lock does exactly the opposite and holds a door secure when the lock fails. This type of lock would be used anywhere that security needs to be maintained in the event of a lock failure. Power must be applied to the lock to unlock the door and the door can be secured once power is applied again. While electric door strikes can typically be ordered as either "fail safe" or "fail secure" most electric strike installations operate as "fail secure" or "fail locked".

Q. *How do I order an electric strike that "buzzes" as opposed to one that does not?*

A. Typically a door strike "buzzes" when it is powered with an AC voltage. The solenoid inside a door strike switches on and off at the same frequency as the applied AC voltage. In North America AC voltage is 60 cycle, this means that the direction of current flow changes 60 times per second or a frequency of 60 Hertz. If a strike solenoid is subjected to a voltage that is oscillating at 60 Hertz then the coil will essentially turn on and off at this frequency. It is this cycling of the solenoid that creates the buzz in an electric door strike. For all intents and purposes the strike is locking and unlocking 60 times per second.

It is important to note that a strike that is powered with an AC voltage will generally be classed as an "intermittent duty strike." This means that the strike should only be operated for short periods of time and cannot be left energized indefinitely to leave the door unlocked. An intermittent duty strike can get very hot and burn out if left powered for too long. Such

strikes have a duty cycle that is usually expressed as a ratio eg. A Duty Cycle of 1:5 would mean that for every second that an intermittent duty strike is energized, it must remain de-energized for 5 seconds to cool down the coil and prevent damage. This sort of a strike is generally used in installations such as apartment building entryways, where the door is required to stay locked at all times unless manually activated to allow access.

Alternately a strike that does not buzz is usually powered with DC voltage. As DC current flows in only one direction the solenoid energizes and stays that way until power is removed. A strike such as this is generally a “continuous duty strike” and can remain powered for as long as the installation requires. These strikes have no Duty Cycle and will operate silently, apart from a slight click when power is first applied. Continuous duty strikes are ideal for an installation where the door is required to unlock in the morning and relock again at the end of the day, staying energized for long periods of time.

Q. *What information do I need from the job site in order to select the correct door strike?*

A. This is perhaps one of the most commonly asked questions, the answer to which is not as complex as one might think. Every detail can’t be covered here. Learning the basics will go a long way to making it much easier to specify the correct strike the first time. We will assume that duty and voltage have already been determined and cover latch types and frame types.

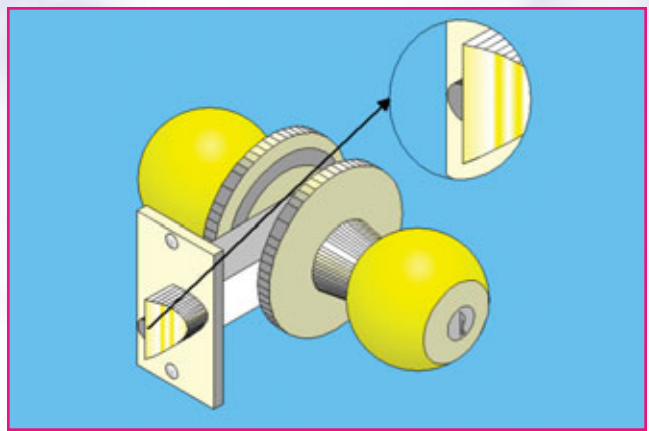
First and foremost, the type of lock that is to be used on the door will narrow the choices down considerably. Does the door have a cylindrical latch, a mortise latch or a Pullman latch. Obviously there are more choices but just getting the basics down pat will allow for variations to be learned later. An example of each type of latch is shown below.

CYLINDRICAL LATCH

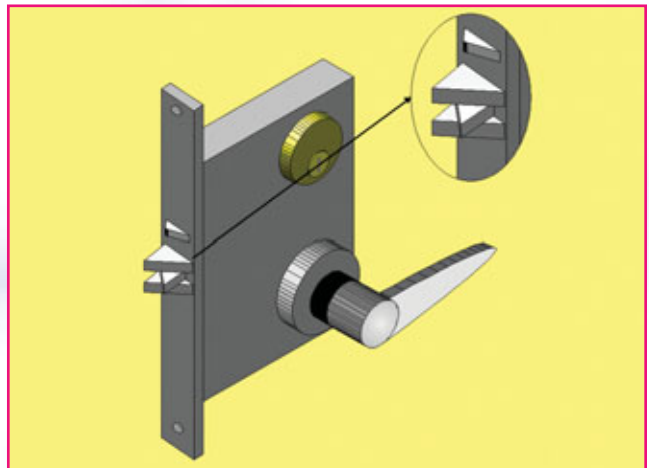
A very common style of latch frequently found on residential style doors. (See figure 1.) These types of latches are centerline latches, meaning that the latch lines up horizontally with the center of the knob or lever that is used to open the door. All electric strike manufacturers can accommodate this style of latch with at least one model of strike. These latches can be found both with and without a dead latch. This type of latch requires a centerline style electric strike with a faceplate suitable for the frame that it is installed in.

MORTISE LATCH

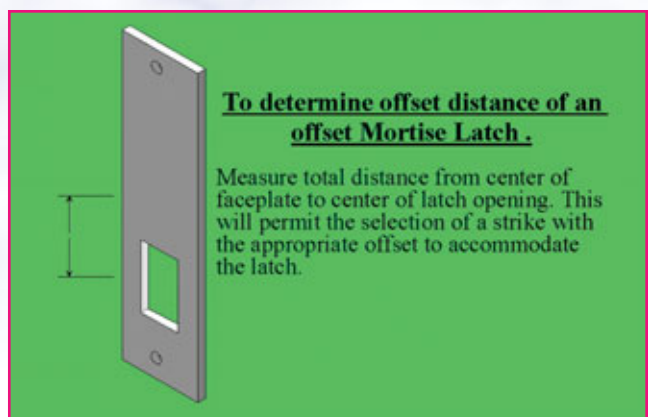
This type of latch is commonly found in commercial or institutional settings and may be offset or centerline. (See figure 2.) This is another type of latch that can be easily accommodated by any strike man-



1. Cylindrical Latch Example.



2. Mortise Latch Example.



3. Measuring the offset distance of a mortise latch.

ufacturer provided some details can be determined. Determining whether the latch is offset or not is very important to selecting the right electric strike.

To determine the offset value for a mortise latch measure the distance from the center of the latch plate to the center of the latch itself as shown below. (See figure 3.) This offset may be offset upward from the center of the plate or downward. Note which is correct before contacting a distributor to place an order. If the latch is an offset type mortise latch the handing of the door will also need to be determined in order to source the correct strike. (See figure 4.)

Continued on page 24



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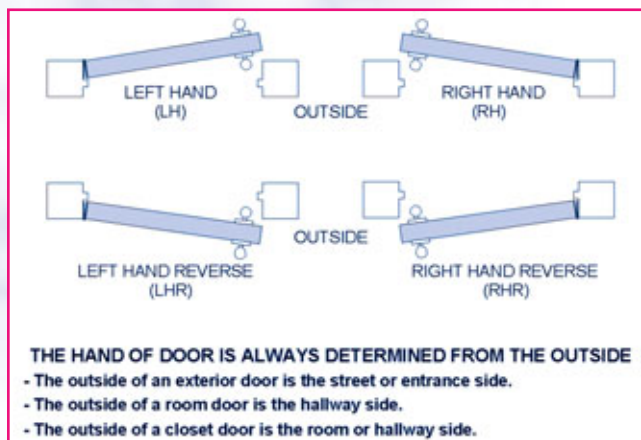
PULLMAN LATCH

This type of latch can be found in many different places and technically is considered a centerline latch. (See figure 5.) Generally, a Pullman latch electric strike mounts to the surface of the frame. It can accommodate latches with and without a dead latch.

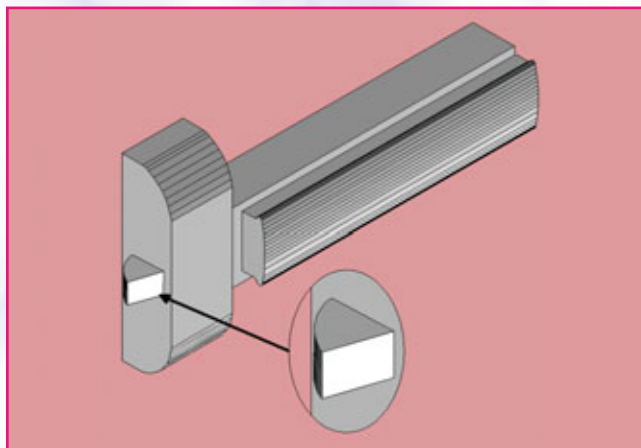
Obviously we can't address strike selection without going into frame type as well. Each of the above latch types can be found in one of a number of different frame types. The following are some examples of different door strikes, where they would be used and why.

This strike is a model generally installed in a hollow metal frame. (See figure 6.) The cutout in a steel frame is usually done with a jigsaw, or some other manner of reciprocating saw with a steel cutting blade. As steel can be difficult to cut, the corners of the faceplate are squared to match the cuts made in the doorframe. This type of strike is suitable for both a cylindrical latch and a centerline mortise latch.

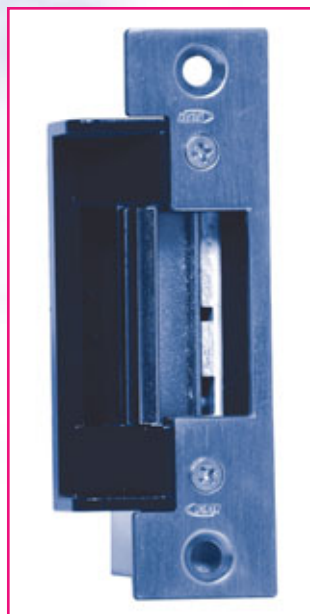
Shown in figure 7, is a typical example of a door strike for installation in an aluminum doorframe. As aluminum is a soft metal the strike cutout can be made with a rotary cutting tool such as a router. The rounded corners on the faceplate allow the strike to be fit into the cutout that has been routed into the



4. Handing a door.



5. Pullman Latch Example.



6. A strike generally installed in a hollow metal frame.

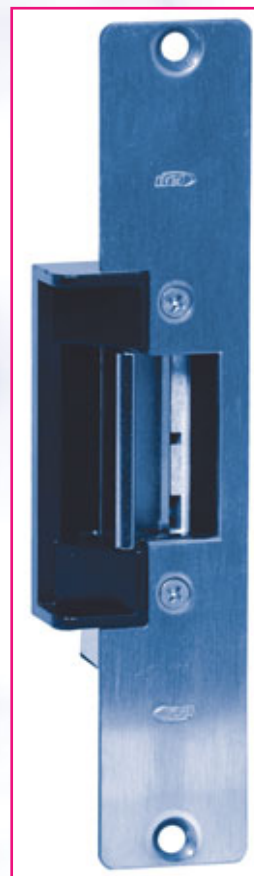


7. A typical example of a door strike for installation in an aluminum doorframe.

frame. No extra cutting is necessary to square the corners. This type of strike is suitable for both a cylindrical latch and a centerline mortise latch.

For a wood doorframe it is advisable to use a strike with a longer faceplate. (See figure 8.) Installing a door strike into a wood frame involves removing a significant amount of material from the structure of the frame. This can weaken the frame and make it subject to a physical attack. Using a longer faceplate will allow the strike assembly and installation to reinforce the doorframe. A strike of the type shown can be used in both aluminum or wood frames. Longer faceplates may also be offered with square corners for hollow metal frame installation. It is worth noting that each of these strikes quite often differs only in the faceplate, and are otherwise interchangeable. This type of strike is suitable for both a cylindrical latch and a centerline mortise latch.

Figure 9, represents a typical surface mounted rim strike for Pullman latches as found on surface mounted exit devices. These strikes can be mounted on virtually any frame regardless of material. In most cases



8. On a wood door-frame it is advisable to use a strike with a longer faceplate.

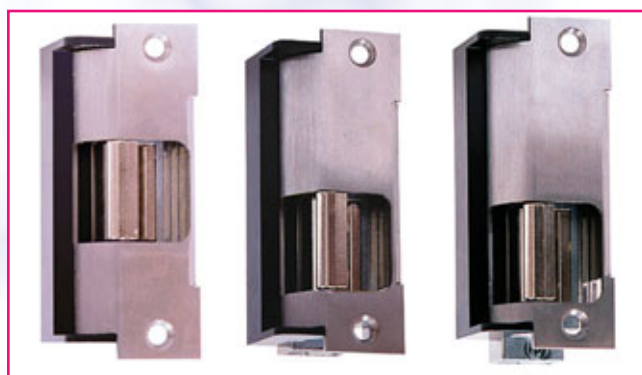
the faceplate mounts on the surface of the doorframe, while the strike insert that projects from the back must be cut into the frame. Some rim strikes are completely surface mounted with no cutting required at all apart from a wire access. This type of strike is generally used exclusively with Pullman latches.

Figure 10, shows a few examples of electric door strikes for mortise latches. This type of strike would generally be used in the case of an offset mortise latch but models to accommodate centerline latches are also available. Typically these strikes would be used in an aluminum or hollow metal frame, but may be installed in other types of frames if the installation requires it.

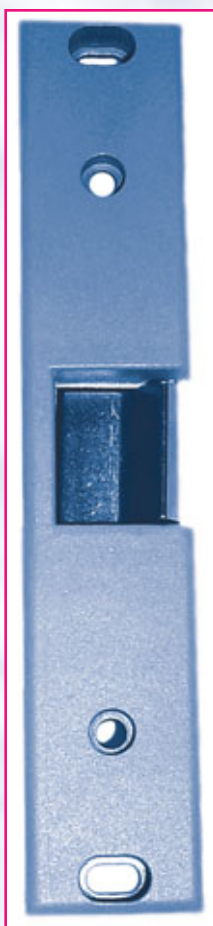
Q. *Can door strikes be installed in a fire-rated opening?*

A. Most manufacturers are offering fire-rated versions of their most popular strikes for use on fire-rated doorframes. Fire-rated door strikes will have been tested by listing agencies such as Underwriters Laboratories (UL) or Warnock Hersey (ETL Semko). Once these tests have been completed the listed components will be eligible to bear the listing agencies mark for use in fire-rated openings. It is important to remember that fire-rated doorframes often cannot be modified after installation without violating their listing. If in doubt it is always a good idea to check with the local inspector before getting too far along.

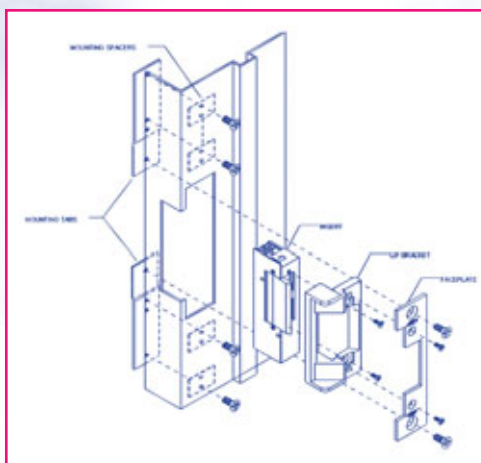
Q. *What if my customer wants their fire-rated opening to be fail safe as opposed to fail secure?*



10. A few examples of electric door strikes for mortise latches.



9. A typical surface mounted rim strike for Pullman latches as found on surface mounted exit devices.



11. The Anatomy of an electric door strike.

A. This is another issue that will probably require the services of your local inspector. Generally fire rated openings are designed to remain locked in the event of a fire to prevent the fire from spreading to other areas or gaining oxygen from open doors. Therefore a fail safe strike would not meet building and safety codes. Fail safe mechanical devices cannot be used on a fire-rated opening due to the potential for them to stick or jam. If installing product on an opening like this it is always advisable to work closely with the local inspector having authority over these types of installations.

Q. *I've picked up the door strike that I think I need but there are a lot of pieces in the box. How does this all go together?*

A. The exploded view provided should clarify that. (See figure 11.) Many manufacturers have different methods of assembling a door strike and installing it in the doorframe. This should provide a basic idea of how they go together. The diagram shows a strike being installed in a hollow metal frame; installation in other frame types would be quite similar.

Obviously there will be many variations on the information provided here and no end to the surprises waiting inside doorframes, but they can't possibly all be covered in one article. Not every problem has a standard "out of the box" solution. There are always circumstances that rely on experience, training or just plain luck. Hopefully this very basic overview will at least make answering customers questions a simple matter.

Kevin Davison is the Technical Services Coordinator for Rutherford Controls Int'l Corp. (RCI) in Cambridge, Ontario, Canada. In addition to providing technical support for customers, Kevin conducts internal training for RCI staff, and has had several articles published in various trade magazines. Prior to his arrival at RCI, Kevin operated a security company for 10 years, which specialized in access control and custom home integration.

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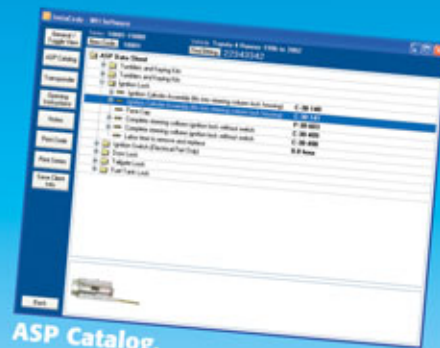
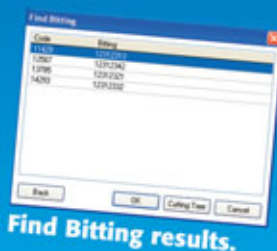
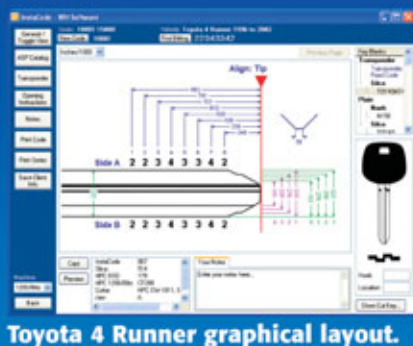
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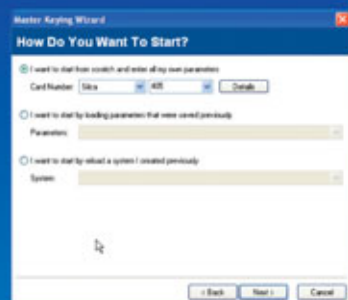


Create a Master Key System, first window.

Main permutation.



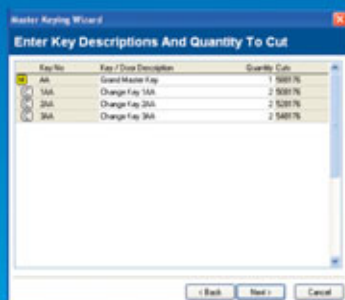
How do you want to start?



The solution.



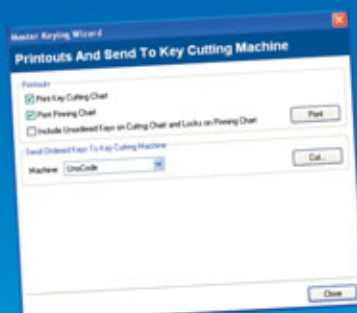
Key descriptions and quantities to cut.



Modify parameters.



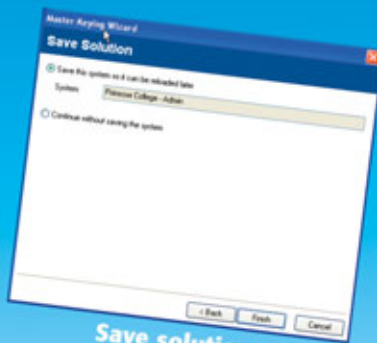
Printouts and send to key cutting machine.



System type.



Save solution.



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InstaCode's master keying is built on technology from ProMaster 5.

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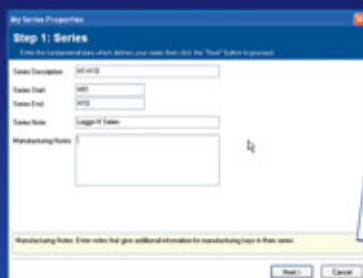


Now add your own code series and cards!

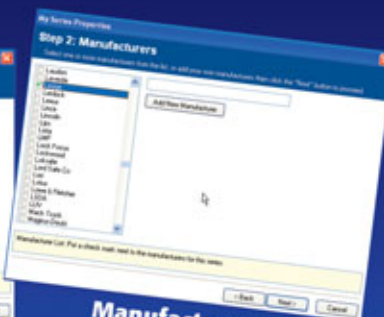
Adding your own information to InstaCode is now simple and fast.



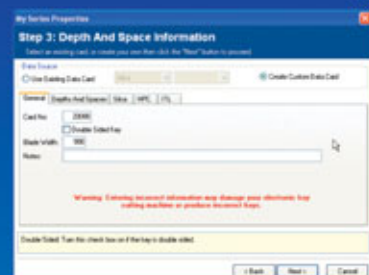
Opening window to add series.



Adding series.



Manufacturers.

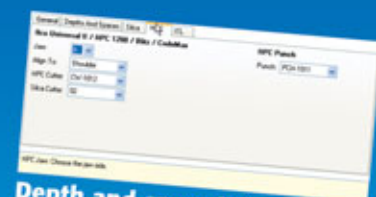


Depth and space information - General property sheet.

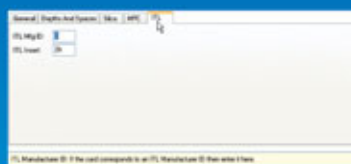


Depth and space information - Silca property sheet.

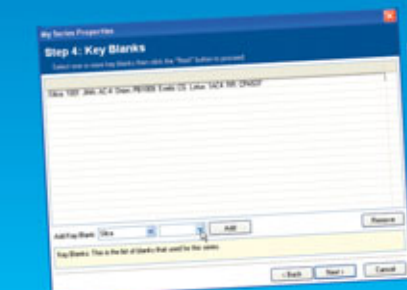
Depth and space information - Depth and space property sheet.



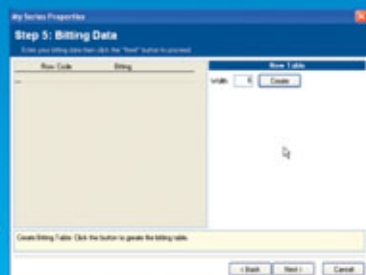
Depth and space information - HPC property sheet.



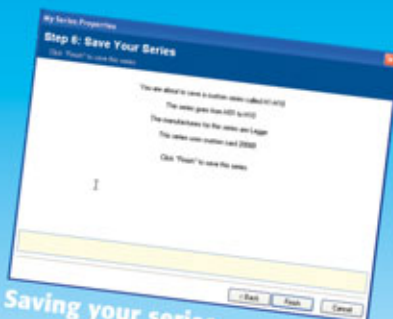
Depth and space information - ITL property sheet.



Keyblanks.



Bitting Data.



Saving your series.

Bitting data table.

Have you collected some codes of our own? Or do you wish to design your own code card?

Now it's easy as 1-2-3!

Simply open a window to add your own code series into your program. Add the data you wish to be included. Then select the appropriate manufacturer, and include space and depth information.

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Confirmation to save series.

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How does your software compare?**

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SEARCH OPTIONS			FUNCTIONALITY		
Code number	✓	?	Add your own code series	✓	?
Manufacturer	✓	?	Make your own code cards	✓	?
Model and year	✓	?	Master keying Module included	✓	?
Key blank	✓	?	Build a grand master keying system and download it to your electronic machine	✓	?
Card	✓	?	Password protection available	✓	?
Lock type	✓	?	Sort key blanks into desired order for display	✓	?
Search on any combination of criteria	✓	?	Find partial bitting	✓	?
DATA			Progression chart to eliminate wastage	✓	?
6000 series • 2.5 billion codes	✓	?	Shows picture of cut key	✓	?
99 key blank manufacturers	✓	?	Stores key hook for each key blank	✓	?
Key blank cross reference	✓	?	Stores client information	✓	?
Key blank profile pictures	✓	?	Stores user notes against each series	✓	?
Key blank pictures	✓	?	Supports laser and plunge cut keys	✓	?
Vehicle opening instructions	✓	?	Your choice of display units (inches or mm)	✓	?
Transponder programming instructions	✓	?	Select manufacturer, model, key blank, etc from list by typing in first few characters	✓	?
Complete ASP catalog with color pictures	✓	?	PRINTING		
Airbag safety instructions	✓	?	Print HPC Cards	✓	?
Lock wafer positions	✓	?	Print a whole series	✓	?
ELECTRONIC MACHINES			Print the current code and it's data	✓	?
Silca UnoCode	✓	?	Configurable printer and printer paper tray	✓	?
Silca UnoCode 299	✓	?	Choose letter or A4 size paper	✓	?
Silca UnoCode 399	✓	?	THE SOFTWARE		
Ilco UltraCode	✓	?	Cad Cam drawing of key graphically shows depths and spaces	✓	?
ITL 9000	✓	?	Intuitive user interface	✓	?
ITL 950	✓	?	Live updates from the Internet	✓	?
CodeMax	✓	?	Supports mouse and keyboard	✓	?
ECM 200	✓	?	Microsoft Windows application	✓	?
MANUAL MACHINES			Licensed to run on 5 machines in the same office	✓	?
HPC 1200/Blitz	✓	?	Configurable personality	✓	?
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HES, Inc. (Hanchett Entry Systems, Inc.), a leading manufacturer of electric strikes, recently had a systems integrator approach them with a large college campus project that presented a substantial challenge. The project involved the renovation of a college dormitory with many existing openings. The integrator was required to install the fire, burglary, and access control systems. As with any retrofit application, the dormitory overhaul required new solutions to fit the existing building requirements—including door frames, locksets, and fire ratings.

The conditions set by the architect involved several requirements that initially proved to be problematic. The first layer that required a solution was hollow metal frames in each dormitory room entry. These existing frames could not be replaced and had to remain in the dorm rooms. The architect's design also required that the walls of the dormitory hallway be "furred" out, creating the second layer of complexity for the systems integrator. The sheetrock needed to be installed in a particular way that returned into the frame, leaving no part of the face of the existing hollow metal frame exposed.

The next layer involved the access control system. The security requirement imposed another set of rules; an electric strike was required for each of the room openings off of the hallway. With the addition of electric strikes to the mix, and no face to work with on the frame, the systems integrator needed to use a 90-

minute fire rated electric strike, which would not require any cuts to the wall structure. The electric strike also needed to release the preexisting Corbin-Russwin mortise lock. The systems integrator explored many avenues, testing various applications, but none were successful.



HES 4500 series electric strike.

The most viable answer seemed to be modifying the wall condition. Modifications had to be kept to a bare minimum, in the interest of time and resources. The right solution then came from HES in the form of the new 4500 Series electric strike. The 4500 requires only a 1" cavity depth in the frame. The keeper on the electric strike falls down into the body of the strike to release the



The 4500 on duty.

latch bolt, thus eliminating the need for additional space for the keeper to fall forward to release the latch bolt. UL 10C fire rated for 3 hours (fail secure operation), the 4500 easily surpassed the necessary 90-minute rating. Also, the 4500 can be used with the existing Corbin-Russwin mortise lock, without having to provide any modifications to the centerline of the electric strike. Finally, the 4500 provides a forcing strength of 3000 pounds—an important feature when used in access control systems in colleges and universities, where door entries are often put to the tampering test.

All of these benefits supplied by the HES 4500 electric strike enabled the systems integrator to create a small “back box”, which when installed in the wall, created a cavity for the guard on the front of the strike. This “dressed out” the cut, and allowed the latch bolt to avoid the surface of the wall as the door closed. The 4500 installed in the existing hollow metal frame, accommodated the existing Corbin-Russwin lock, exceeded the required fire rating, and kept modifications to a minimum. This addressed all of the layers of the dormitory fire, burglary, and access control system issues. The project was completed successfully and with no complications. HES provided the right solution for a problematic application.

HES, Inc. is an ASSA ABLOY Group company. For over 25 years, HES has been a leading designer and manufacturer of electric strikes and accessories for the access control industry. HES is frequently first with innovative products and services that meet the customers' needs. For more information on HES products, please call 1-800-626-7590 or go to www.hesinnovations.com. 



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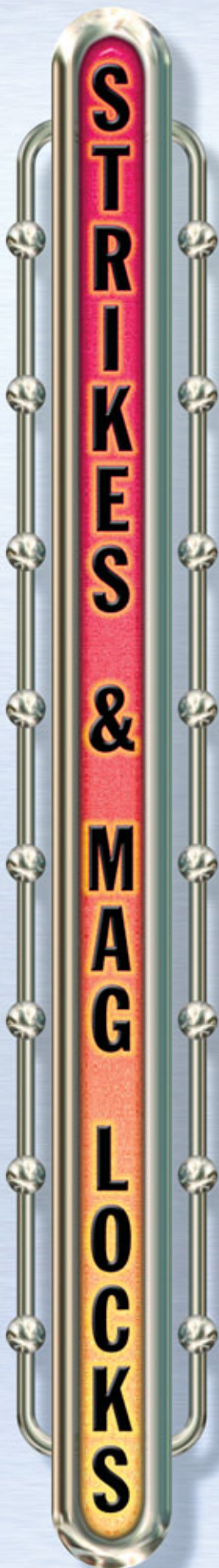
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— Adams Rite 7300 Compact Strikes —

Adams Rite Manufacturing Company introduces their new 7300 Series Compact Strikes. These strikes are designed to fit jamb sections as shallow as 1-1/16" with a strike opening of 5/8" x 1-3/8" x 1/2". Their modular design offers complete flexibility as different strikes can be utilized for different applications. This cost-effective feature enables the installer to make a variety of models using various faceplates, which saves time and reduces inventory. The compact case, made of zinc-aluminum alloy, it uses a stainless steel bolt retainer jaw and accepts any faceplate that is available for Adams Rite 7100 Series strikes. Many of the same finishes and options of the 7100 Series strikes are also available for the 7300 Series. These new compact strikes can be field converted from fail-secure to fail-safe.

The 7300 Series strikes are comprised of four different configurations depending on the application needed for the compact strike:

- 7300 Compact Strike for mounting in aluminum jambs
- 7310 for wood or aluminum jambs
- 7330 for aluminum jambs
- 7340 for wood or hollow steel jambs

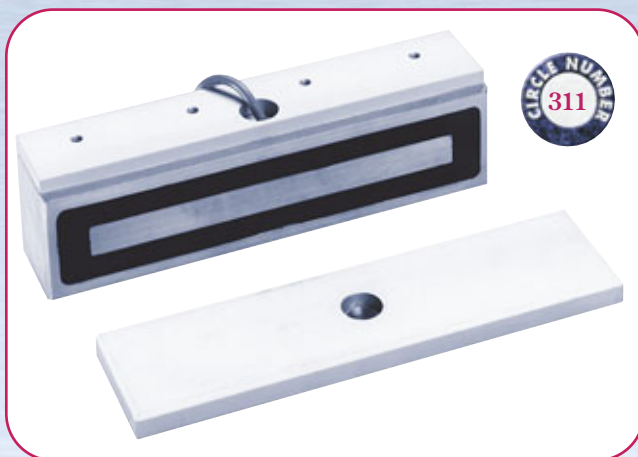
These electric strikes are 12 or 24-volt DC devices, which allows remote electrical control of any door equipped with an Adams Rite Series 4500 or 4700 (or similar) dead latch or "key-in-knob" sets. Remote electrical actuation unlocks the strike jaw, releasing the latch bolt and allowing the door to be opened without operation of the latch itself.

The Adams Rite 7300 Series Compact Strike is ideal if space is limited and access is required from a remote location. For specific faceplate sizes and finishes, please contact Adams Rite.



— Door Controls International —

The patented Grade 1, UL listed magnet can be supplied for both indoor and outdoor use, and was designed to reduce labor costs by providing a simple trouble-free installation. DCI also offers other products to meet all your requirements for access control, and has designed a line of electrified products to address our world's safety and security concerns. Their focus is to address these concerns, while making it simple. Three different kits were comprised based on codes for access controlled systems the DES-1 Kit Delayed Egress, ACE-1 Kit Access Controlled Egress, and AC-1 Kit Access



Controlled. Simply order the appropriate kit for your desired application, and all the products will be included in one competitive price. Also, these kits can be custom built to fit any application. Their products are a perfect solution for achieving maximum security for either restricted areas or supervised entrances. Security made easy.

— **ROFU Patented Mini Shear Lock** —

ROFU International's new Mini Shear Lock, along with a holding force of 1,500 lb., combines a versatile, installer-friendly mounting configuration with a revolutionary new patented adjustable shear lock design. In addition, its compact size of 7" X 1-1/2" X 1-3/4" will make it one of the most sought after new products in today's market due, to its size-to-strength ratio.



This lock is available in a variety of installations as follows:

- Flush Installation

- Semi-Flush Installation
- Surface Installation
- Full Glass Door Installation
- Surface Mounted Outswinging Door Installation

Standard Features:

- Field-selectable voltage of 12VDC/24VDC
- Current draw of 350mA at 12VDC and 190mA at 24VDC
- Limited warranty is 60 months
- Fire safe: Releases instantly when power is disconnected
- Fail alarm: May be released upon activation of fire alarm

Options:

- Door monitoring available

— **Securitron's UnLatch** —

Securitron's patented UnLatch® is the innovative product that takes the place of traditional electric strikes by allowing installation into an ANSI 4-7/8" cutout without doorframe modification. The UnLatch® actually pushes the door latch into the lock body, releasing the door (even under pre-load). Unlike traditional electric strikes, the UnLatch® maintains continuous dead latch security.



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Every resident of Maine, Vermont, New Hampshire, Massachusetts – and Wyoming – could walk through your repaired door equipped with SELECT Hinges™ and not wear it out.

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10,000,000
cycles ... and counting.



The UnLatch® has been awarded top product honors at the New Product Showcase held at ISC WEST in Las Vegas as well as the Access Control Product Achievement and Specifier's Choice Awards at ISC EAST. The UnLatch® is UL Listed for use on fire doors, and as an added benefit, the UnLatch® comes with a built-

in monitor that can signal the door is latched, providing the ultimate in security monitoring. For use in even more settings, Securitron also offers the UnLatch® in Polished Brass (US3) finish.

All these features are combined with a 250,000 + cycle duty, famous 1-800-MAGLOCK support and MagnaCare™ lifetime replacement warranty.

— Trine's LC Model —

The LC 100 Option is available on the entire new Axion 3000 Strike Series. It utilizes an external line conditioner module to regulate voltage for the strikes. The module regulates input voltages, 12-24 AC or DC, and conditions the output for the pull in activation period. It then reduces holding voltage



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output for continuous operation. The LC 100 also provides surge and kickback protection to the access control system.

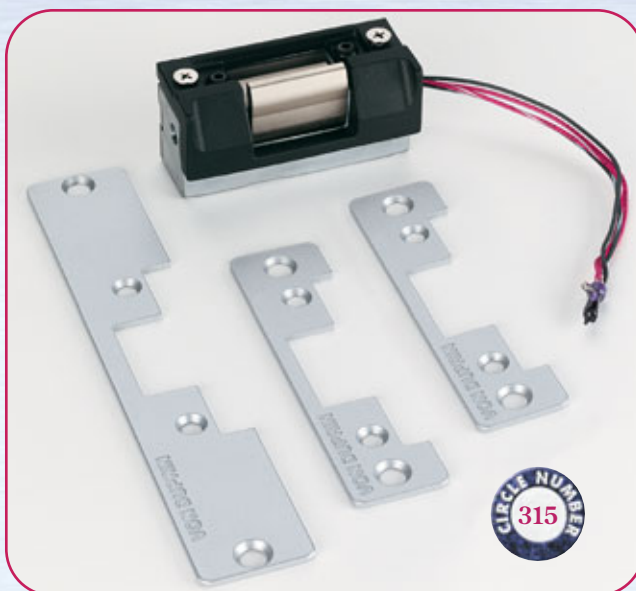
It can be used with all the 3000 Series Strikes and requires only a 2-1/16" frame face cut and it utilizes existing tab holes. Unlike other strikes, the cutout need not be expanded to accommodate a 6-7/8" strike, which involves 70% more cutting, and the drilling of new tab holes.

— **Von Duprin 5100 Medium Duty Electric Strike** —

The Von Duprin 5100 Electric Strike has been designed and manufactured to meet the needs of locksmiths and security professionals. This easy-to-install strike was created for medium duty applications where a cylindrical lock is to be used. This electric strike allows control of traffic through interior and exterior openings in retail and commercial markets. The many versatile features of this product allow the strike to satisfy a wide variety of applications, saving the installer time and money. Because it's the Von Duprin brand, you know you can depend on the product quality and performance.

Features & Value:

- Three faceplates included for hollow metal, wood and aluminum frames.
- 12/24 VDC dual voltage solenoid.



- Fail Safe/Fail Secure field selectability.
- Mounting tabs included.
- 1-year electrical warranty.

The electric strike features allow for reduced stocking requirements and lost time from repeated trips to the shop for parts. If saving time and money are priorities...then consider the Von Duprin 5100 Electric Strike. **TNL**

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2003 Corolla



TOYOTA

Part 1

by Michael Hyde



OPENING

Since the late 1980's Toyota has been making their cars harder to open with old methods, and keeping the locksmith industry on their toes. The new Corolla uses cables for linkage rods and is well shielded.



The newly designed 2003 Corolla has a different body style and lock system than in years past. This budget minded car is highly popular among rental car agencies. The chance you will run into one of these is very high, and you need to be prepared to make money and make fast work of this car. There is no transponder system on this car. Since this car uses the new Toyota code series, you will need accurate and precise code cutting equipment.

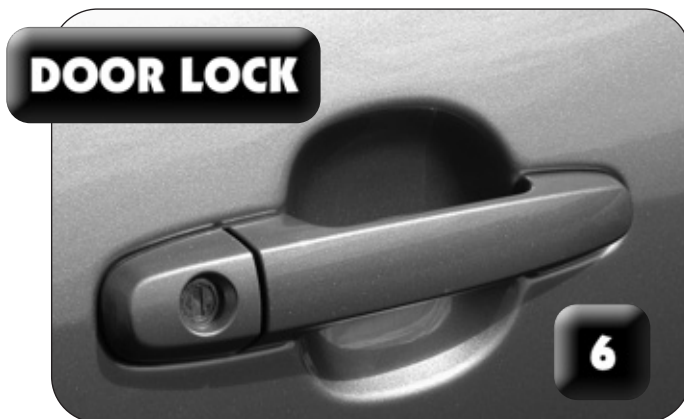
For this car we are going to use a long reach tool to unlock the car. Insert a wedge and used a piece of cardboard on the backside of the wedge so it doesn't mark the black plastic trim on the rear door frame.



Use an Air Wedge to spread the door enough to slide in the long reach tool.



The inside door lock opens easily with the tip of tools makes contact with it.



The door lock cylinder sits alongside the outside door handle.



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Removing the door panel is easy on this car. However you do not need too.



The cylinder is held in there snugly and thus takes a little wiggling to slide it out.



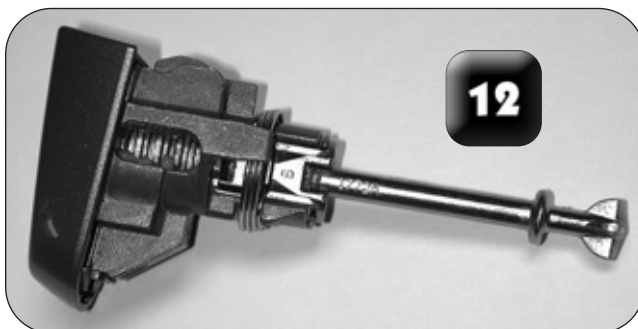
On this new Corolla the door lock cylinder is held in a by a #30 Torx bolt. Remove the black plastic cover to access the Torx bolt.



There are two sets of numbers on this lock. The upper one is a production code; the lower one is the code. The code is found only on the passenger door cylinder. This code is 60026, which is found in the newer Toyota code series 50,000 thru 69,999.



The Torx bolt is held in place by a plastic clip after you loosen it, therefore you do not need to remove the bolt from the car.

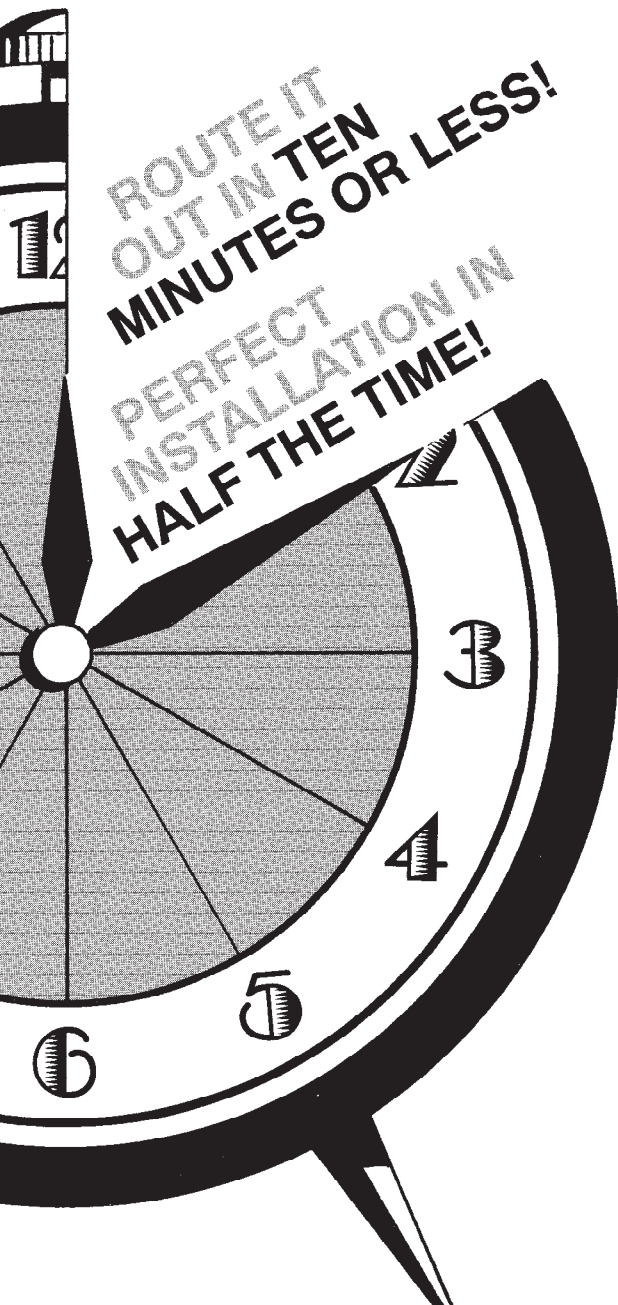


Here is a view of the lock cylinder removed from the car.

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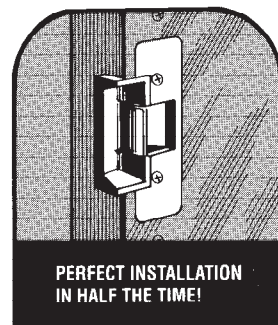
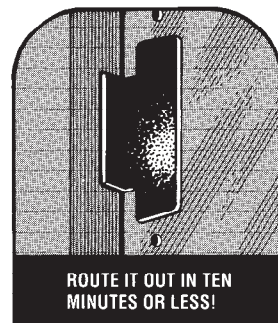
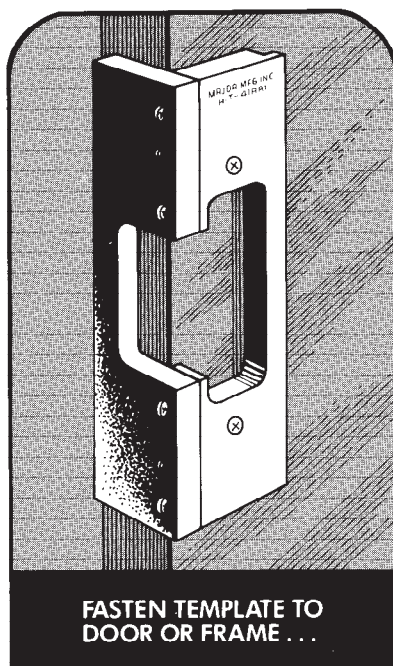
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- Fast, accurate installation with the use of a router.
- Use scribe lines on template to determine proper alignment.
- Fasten template to door or frame with the two self-drilling screws (supplied) and route out opening.
- Remove template from door or frame.
- The two screw mounting holes are drilled out and counter sunk to become mounting holes for strike mounting tabs.
- Template works on frame of a single offset hung door or inactive leaf of double door.
- Requires a router with 3/8" outside diameter guide and 1/4" router bit.



- ☐ HIT-41AR1 for ADAMS RITE 7100 series
- ☐ HIT-41AR2 for ADAMS RITE 7130 series
- ☐ HIT-41AR4 for ADAMS RITE 7100 series Center Hung
- ☐ HIT-41HS1 for HES 5000 X 502AL
- ☐ HIT-41HS2 for HES 5000 X 503
- ☐ HIT-41HS3 for HES 7001 series
- ☐ HIT-41HS4 for HES 5000 X 502AL Center Hung
- ☐ HIT-41RC6 for RUTHERFORD 4104,5104,7104
- ☐ HIT-41RC8 for RUTHERFORD 4107,5107,7107
- ☐ HIT-41FA1 for FOLGER ADAM 201 series
- ☐ HIT-41FA2 for FOLGER ADAM 205 series

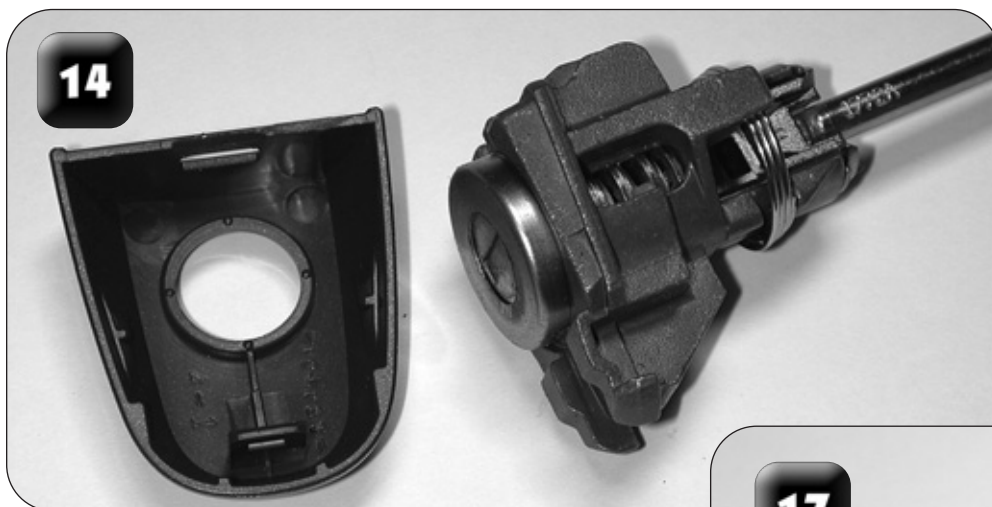
Circle 232 on Rapid Reply



The lock cylinder painted plastic face cap will need to be removed.



The face cap will have to be removed and must be reused when you re-assemble the lock cylinder



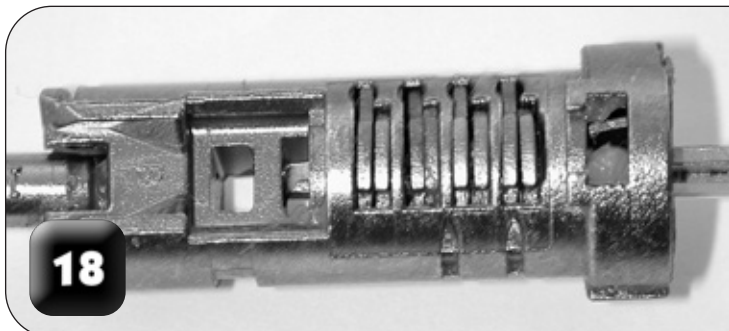
Gently unsnap the clip from the bolt side as seen in the picture or you risk breaking the cap.



Once the face cap and the "C" clip are removed the cylinder will slide right out. You may have to remove the return spring to aid in the removal of the cylinder plug.



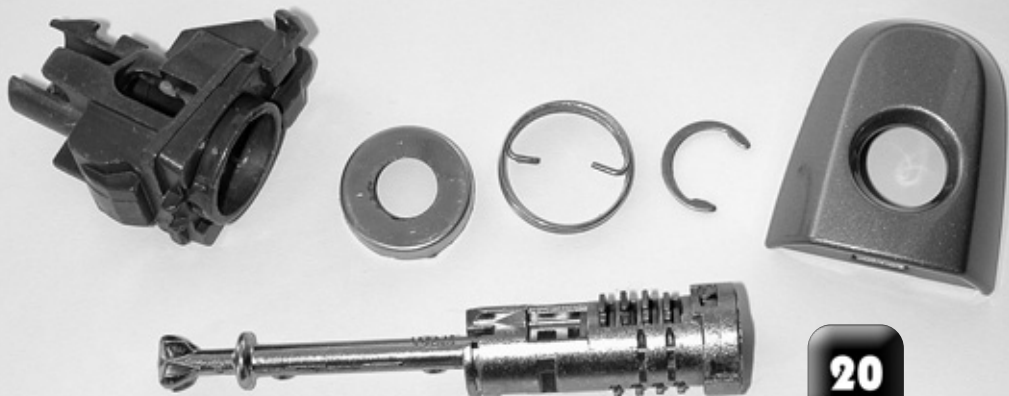
There is a "C" clip that secures the cylinder plug.



The door lock cylinder plug contains 8 out 10 tumblers in positions 3 through 10.

The '03 Corolla uses the new Toyota code series and thus has the new tumblers and tumbler arrangement. Each tumbler chamber holds 2 tumblers that go in opposite directions.

19



20

Here is a view of the disassembled door lock cylinder.

In the next installment we will cover the ignition lock and trunk lock.

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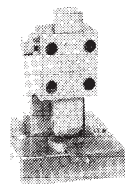
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Padlocks

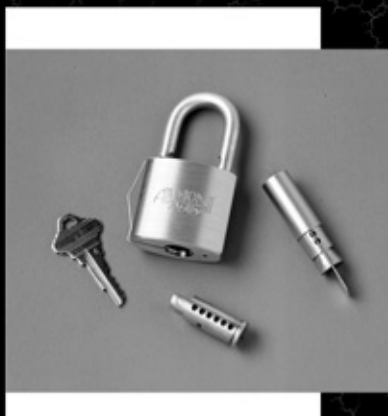
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Adams Rite Revolutionary Idea in Maglocks

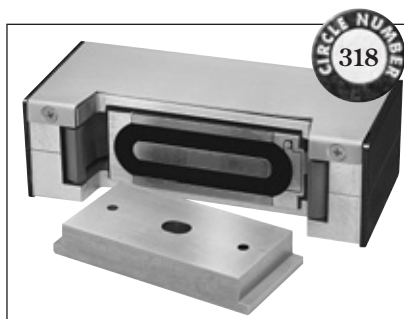
Adams Rite Manufacturing Company introduces the new MS Maglock™, the latest product improvement from the leader in innovative door access and security hardware.

Adams Rite has engineered a new class of maglocks that combines the convenience of an

electromagnetic lock with the strength of a mechanical lock, all in an incredibly small, 6" x 2-3/4" x 2" package.

Unlike normal maglocks, which get larger in size and weight as the strength rating increases, the ingenious design of the MS Maglock utilizes a pair of spring loaded hardened steel mandibles that instantly clamp the armature in the event of a forced entry. With these mechanical jaws engaged, the MS Maglocks holding force is an incredible 4000 pounds, which is about 1,000 times its own weight!

This design allows the entire assembly to be much smaller and lighter, while outperforming virtually all-traditional maglocks



on the market today. For comparison purposes, the MS Maglock is smaller than a 600 lb. rated traditional maglock and about half the size and weight of a 1,500 lb. rated traditional maglock. Rated at 4,000 lbs., the Adams Rite MS Maglock has strength to burn. Overkill? Not in today's security-conscious business and institutional environments.

With its small size and weight, the MS Maglock is technician friendly and extremely easy to install on in-swinging or out-swinging doors of all kinds. The MS Maglock can be integrated into most access control systems such as card readers, keypads, key switches or pushbuttons. Operation is fail safe at all times, but the unit can be equipped with a battery back-up power supply. Additional options include a door position switch to detect attempts to open and a tamper alert sensor to verify positive engagement of armature and magnet.

Aiphone's Intercom Security System

Aiphone Corporation introduces the new hands-free JB Series Color Video Entry Security System. The system was designed for ease of use while providing exceptional viewing and communication capabilities.



Door call-in turns on the image instantly with audio monitoring. Then, by simply pressing the large talk button, the hands-free VOX communication between door station and monitor is initiated. The 3.5" color TFT monitor allows for crisp viewing even in low light settings using the built-in door station LED illuminators. Choose from a variety of durable and attractive door stations. The series is expandable with Sub Masters or Audio Stations. Selective door release, call extender and picture memory unit can also be added

AMSECO

AMSECO's patent pending colored light strobes are designed for various warning and emergency visual indicators such as severe weather warning, evacuation/emergency response warning, all clear notification alternative, etc. The strobes feature four colored models: amber, blue, green and red and



come in 24 VDC, 120VAC with field selectable candela and sounder. Wall, ceiling and outdoor models are also available. These patent pending colored strobes can be used as a standalone device or can be integrated into an already existing system.

Detex Value Series®

Detex Value Series® panic

and fire exit hardware features alarmed and non-alarmed rim exit devices. They are designed to provide facility and security managers with an easy, affordable way to prevent theft and loss without compromising life safety. A weatherized model, designed for use in all climactic conditions, is also available. And now Value Series offers electrified options for even greater security. Among these are Electronic Delayed Egress with Maglock (EM), Electronic Switching (ES), and Electronic Integration (EI). All models are UL listed, and BHMA Grade 1 panic hardware devices and come with a 3-year limited



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Kaba Access' Simplex® 5000

The Simplex 5000 by Kaba is a heavy-duty mechanical pushbutton lock, featuring a clutch-free, direct drive design that adds reliability and durability. The Simplex 5000 is easy to install, and features an optional passage function, and a variety of key override options



including key-in-lever and interchangeable cores. Currently, the Simplex 5000 is compatible with fifteen different industry standard cylinders in the US, and four International cylinders. This is in addition to its compatibility with six different industry standard interchangeable cores. Kaba backs the Simplex 5000 with a three-year warranty.

Marks USA Access Control Price Break-thru

Marks USA announces a price break-thru in stand-alone access control. The new I-Que Metro is an all-weather, heavy duty, grade 1 construction lockset with a 32-user capability, and a black powder coat crinkle finish. It is keypad programmable and has functions for: manual passage mode, first manager to arrive, double code entry, PIN only function and 8 programmable holidays. The I-Que Metro runs on 4 AA batteries included with purchase. It is ADA compliant;



UL listed and carries the Marks lifetime mechanical and electronic warranty.

Omnilock

The OSI family of stand-alone access control devices are available in a variety of configurations including cylindrical, mortise, wall mount and the featured Exit trim. These trims, like all OSI systems, are available in keypad only, magnetic stripe or proximity card and a choice of 100, 300, 500 or 2000 user systems.

Exit Device Trims are available for Von Duprin, Precision, Sargent, Corbin-Russwin, Yale, Arrow, and the Detex Advantex Exit Devices. These trims are available for Standard or Interchangeable core cylinders. The Exit Device Trim shown is installed on a Von



Duprin 99 Exit Device and has the Weatherized Shroud p/n 11856 installed.

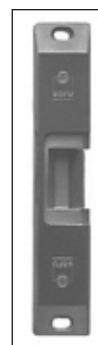
RS2 Technologies Access Control Package

Access It!® Lite from RS2Technologies is a user friendly, entry-level, out of the box access control software package, designed from the ground up with ease of use as a cornerstone. The package can have up to 32 readers, access levels and time zones.

The familiar Outlook style interface, along with clever wizards, results in an operational access control system in minutes instead of hours. Frequently performed operations, such as adding cards and running reports are transformed into simple, step by step tasks through the use of the built in wizards. The package can be easily upgraded to the company's flagship Access It! Software package.

ROFU's 1960 / 3960 Electric Rim Mount Strike

ROFU International's Rim Strike Design for "REAL WORLD" installations.



This new Electric Rim Strike from ROFU incorporates all the necessary features, which installers have been looking for from a Heavy-Duty Electrified Rim Strike:

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Continued on page 46



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VIPS-14
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PIP-23
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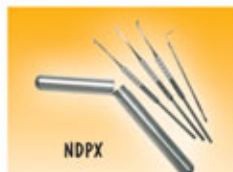
CAMO-35
Designer Pick Sets



HFTT-KIT
Hands-Free Tension
Tool Kit



COLOR-35
Color Coded Pick Set



NDPX
Dental-Style Pick Set



KGB-1
Mini Belt Pick Set



HPG-10
Pistolpick™



NDPK-32
Superior Pick Set



ES-2000
2000 Series
Extractor Set



NDPK
Deluxe Pick Set



PIP-13
Novice Pick Set



BFW-8
Bi-Fold Wallet Pick Set



EMER-6
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PKS
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IMB-IIR
"I Mean Business"
Pick Sets



LPPS-2000
Royal Roll-Up™ Pick Set

Circle 218 on Rapid Reply

Continued from page 44

Faceplate Spacers (2 Supplied with Strike) allows full engagement of Locking Latch

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STI Pneumatic Adjustable Timer Push Button

Newest Stopper Station from STI is the pneumatic adjustable timer push button with a timer life of 1 million operations. It has an adjustable range of 2-60 seconds ($\pm 15\%$) to open or close a circuit with a switch rating of 10 Amps (resistive) 240 VAC. Temperature range of the button is 15° F through 120° F. Button housing is available in choice of colors: red, green, yellow, white and blue. Other buttons also available with button choices of: momentary, illuminated, push &



key to reset, and push & turn to reset.

Superior Software's Powerful Video Surveillance Product

Superior Software Management Systems, Inc. has introduced a new video surveillance system designed to remotely view and record images (via an Internet connection), as well as operate electronic devices. The system is called


Surveillance Manager and it consists of a comprehensive software package and proprietary 4-port video capture card.

Images collected by Surveillance Manager are date and time-coded and stored in a series of database files. The file name is actually the date and time, so sorting through surveillance video is simplified dramatically from analog or digital video recordings. Data is extremely secure with 256-bit encryption built-in.

Surveillance Manager also features a motion detection system that allows for a pop-up screen or alarm when there is motion in a video frame. It can also be set to begin recording for a pre-determined length when motion occurs. Up to 10 locations can be monitored at the same time on one computer. Five remote viewer licenses are included in the basic Surveillance Manager package.

Ask Dave

by Dave McOmie



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Unlike other video-based surveillance systems, Surveillance Manager also gives the user control capabilities. The software can, via the Internet, remotely control electronic devices such as lights, locks and gates.

Superior Software previewed Surveillance Manager at the North Carolina Self Storage Association Show in Asheville, NC on October 16, 2003. The company is targeting the traditionally security conscious self-storage industry and other small businesses with its marketing efforts. It also hopes to place Surveillance Manager in schools and law enforcement vehicles.

Superior Software has been developing Surveillance Manager for more than five years. It has been beta tested in two self-storage operations, a hotel and a car wash. The two-year test actually resulted in two arrests

and prosecutions. The basic Surveillance Manager package is \$1,995.

Videx Features CyberLock®

CyberLock® electronic cylinders quickly convert mechanical lock hardware and padlocks into full-functioning access control systems. Each user's key can be programmed to grant access to specific locks at pre-selected days and times. The key can be set with a date to begin operation, as well as an expiration date. A complete record of all entries and denied entries are stored in both the lock and key.

CyberLocks cannot be picked and the keys cannot be

duplicated. Since there are no batteries in these cylinders, CyberLocks can be installed



anywhere — in padlocks securing gated areas, on cabinet doors containing network servers, and on doors throughout entire business complexes.

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The Videx

CYBERKEY

Authorizer

by
Richard Allen Dickey



I am happy to say that this is the third time I have been asked to review a new product from Videx. The first time I heard of Videx was at the Las Vegas ALOA convention in 2000. They had a booth with an exciting new product called "TouchAccess."

The second review was in the August 2001 issue of The National Locksmith. It was the introduction of a new product called "CyberLock," and had some very impressive features.

Now they have taken the CyberLock one step further with the CyberKey Authorizer. Between the Authorizer and the addition of the CyberLock for safes, they have something that few else in the industry can match.

For those that missed the article on CyberLock, I want to give you a brief overview of what the product is and why it is so powerful. After the overview, I will tell you about the Authorizer!

To start with a basic example, there is a lock and a key. (See [photograph 1.](#)) The CyberLock and the CyberKey have a very distinctive feature; They both have a triangle shape and three funny looking gold things in the middle. (See [photograph 2.](#))

The CyberLock cylinder is an electronic cylinder that is based on the exact dimensions of the mechanical cylinder it is replacing. (See [photograph 3.](#)) Only the cylinder of the existing locks need to be replaced. The CyberLock has two levels of intelligence.

1. An encrypted access code that provides security for the locks in each installation.
2. Storage for the last 1100 events.

The CyberKey is an electronic key that has three levels of intelligence.

1. An encrypted access code that provides security for each key in the installation.

2. Storage of the last 1150 events.

3. Access privileges for the user.

When the gold pins of the key mate with the gold plates in the lock cylinder, really cool things happen.

1. The key supplies power to the lock cylinder with its internal 3-volt battery. (See [photograph 4.](#))

2. The lock and key exchange ID information.

Continued on page 52



1. A Pro Series Master lock with a CyberLock cylinder and CyberKey.



2. The CyberLock and CyberKey have a triangle design that will only mate in one direction.

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Circle 223 on Rapid Reply

3. Each model of CyberLock is designed to the exact dimensions of the manufacturers cylinder that it will replace.



4. The power for the key and the lock is inside the key.



5. A CyberKey Station is used to program locks, keys and retrieve audit information.

3. If the lock is “New” (has never been programmed) it notifies the key. The key instructs the lock to open and skips the remaining steps.

4. If the key is a deactivated lost key, it does not open the lock and a siren inside the key sounds for several seconds.

5. If the lock is programmed and the key is not on the lost key list, several things happen. The key checks its list of locks to see if it has permission to open this lock. It also checks to see if it is within its scheduled access time. If everything is OK, the key sends the lock the access code to open.

6. If the lock gets a valid access code from the key, it tells the key which mode and/or delay time requirements it has, if any.

7. When the key has satisfied the delay and mode requirements, if any, it instructs the lock to open.

All of these steps take place in a few tenths of a second. It is so fast that you would never guess that there was an exchange of information between the key and lock.

Now lets move on to the CyberKey Authorizer. After all, it is the main reason we are here.



6. The Authorizer is designed so that key updating can be done remotely. It also retrieves audit information from the key during the update process.

The CyberKey Authorizer is an extension of the CyberKey system. It acts like the CyberKey station that is attached to the computer. (See photograph 5.) The advantage is that it can be remotely located almost anywhere. It only requires power and either a network connection or a phone line so it can link with the main computer. Why is this a good thing? I’m getting there.

To really see the power of this product, I need to fill you in on a few of the added features in the latest version (ver 1.3) of CyberAudit. CyberAudit is the software that is used to program the CyberLocks and CyberKeys.

For two years now, there have been two versions of CyberAudit. One was a lite version and the other was the professional version. The professional version had a lot of features that the lite version did not have. Recently the lite version has been dropped and only the professional version is available.

One of these features is the ability to program a CyberKey to become disabled after a specific date or time. It is called “expiring a key” and can be done in two ways.

The first is a fixed expiration and can be done on a specific date, weekly, monthly, end of quarter or

yearly. The second way is a rolling expiration and can be set for as little as five minutes or as long as 12 months. This feature makes a lost or stolen key useless after its deactivation time. This is an excellent way to maintain key control.

It did however have one drawback. Someone had to have computer access to reauthorize the key. What if that person was not at work that day? What if it was early in the morning before other people arrived? I think you can see the potential problem. The CyberKey Authorizer is the solution to that problem. (See photograph 6.)

The CyberKey Authorizer consists of a "Hub" (see photographs 7 & 8) and a "Keyport." (See photograph 9.) A plug in, 12 VDC power supply is used to power the hub. (See photograph 10.) The keyport gets its power from the hub, (see photograph 11) through its connecting cable. (See photograph 12.)

For this example I will connect the hub directly to the computer by using an Ethernet cross over cable. It is the same as the Ethernet patch cord, except one end is wired differently. The hub to keyport connection uses a standard category 5, Ethernet patch cord.

When the computer and hub are talking to each other, it is time to introduce the hub to the

7. The hub should be mounted in a dry, secure location.



8. The rear of the hub has connectors for power, LAN, phone line and Keyports.

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CyberAudit software. With the software running, you will start at the main screen. Click the “Authorizers” button and it will take you to the authorizers main screen. *(See photograph 13.)*

By clicking the Authorizers pull down menu you will be able to select “Add Authorizer.” (*See photograph 14.*) The add authorizer screen has default information that can be used to “acquire” necessary information from the authorizer. This information is necessary so it can be added to the system.

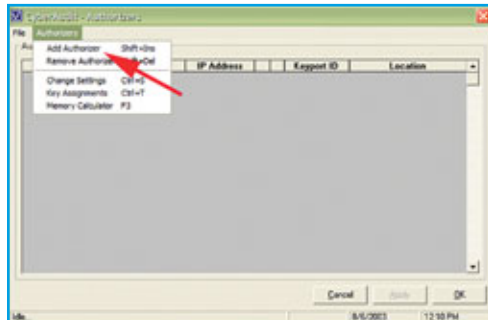
When you click “Acquire,” the software searches for a new hub and retrieves information from it. (See [photograph 15](#).) When the hub is found, the necessary information is automatically added to the system. (See [photograph 16](#).) Clicking close will take you back to the authorizer main screen.

If things went as expected, you will see a hub that has its information displayed much like the locks and keys have been displayed. (*See photograph 17.*) If you look, you will notice that the hub ID number as well as the keyport ID number is displayed.

Now the hub has to be told which keys will be using it for updates. By clicking the “Key Assignments” (*see photograph 18*) under the Authorizer pull down menu, a key assignment screen appears. (*See photograph 19.*)

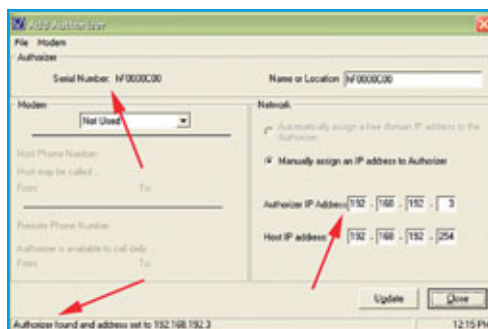
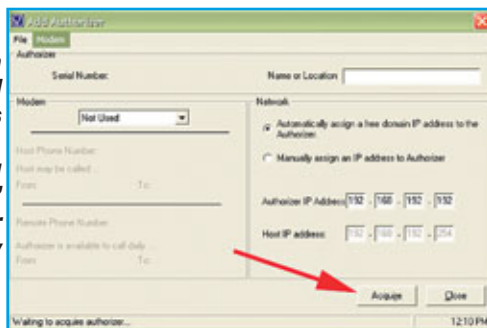
It will display a list of keys to choose from. By checking the box next to the key name, you assign that key to the hub. You must click “Apply” before clicking “OK”. This will take you back to the main

13. Clicking "Authorizers" will take you to the main authorizer window.



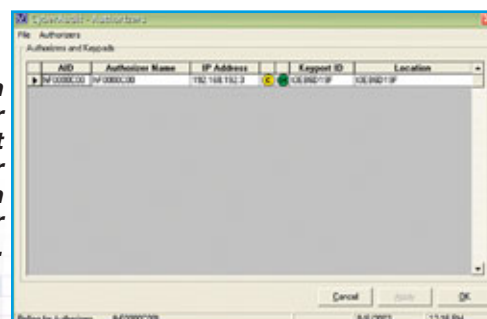
14. Adding an Authorizer is done from the Add Authorizers window.

15. From the Add Authorizers window, clicking "Acquire" will look for a new Authorizer.



16. If a new Authorizer is found, it retrieves its ID number and assigns it a new IP address.

17. After an Authorizer is found, it will appear in the main Authorizer window.



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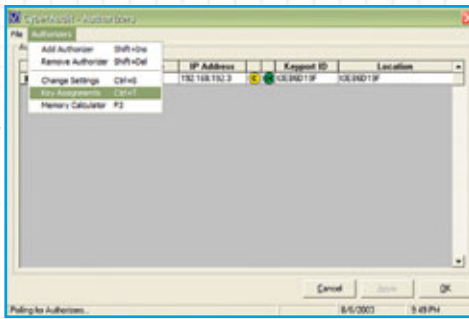
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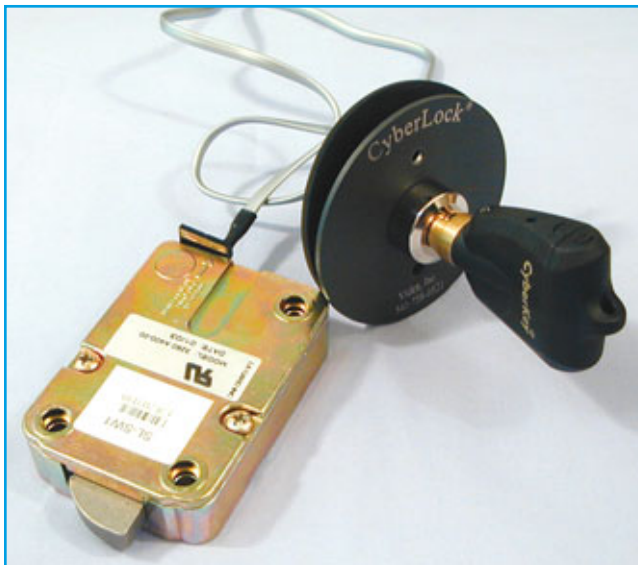
18. Keys are assigned to an Authorizer through the "Key Assignments" window.



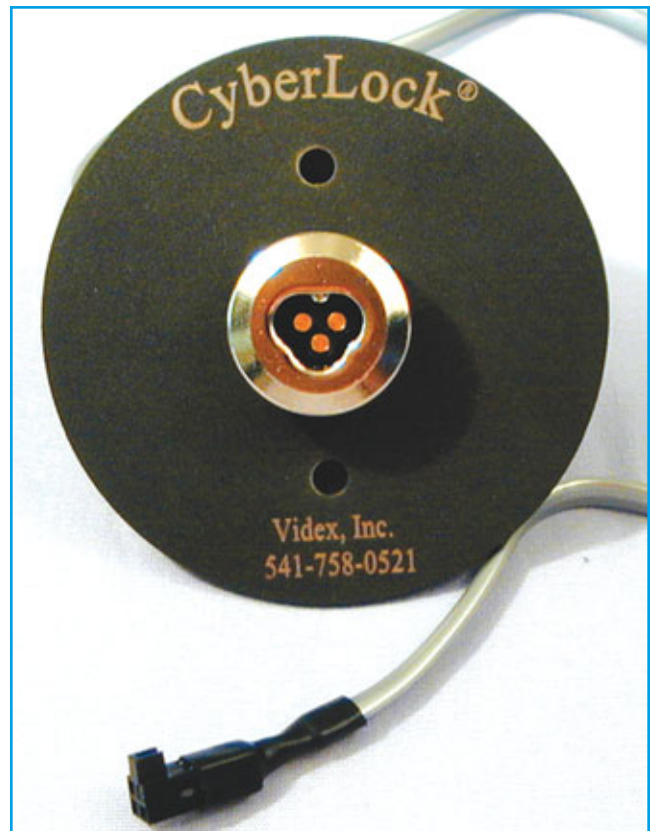
19. By checking the box next to the desired key, it can be used with the authorizer.



20. The yellow "C" icon means that the Authorizer has not been updated.



21. The CyberLock safe lock will allow you to integrate any safe into the CyberLock system.



22. The original safe dial is replaced with the CyberLock keyport.

Authorizer screen where you must click "Apply" again. Why twice? Well, they're working to correct that.

Remember, using the hub and keyport doesn't open anything. This assignment is only to remotely update the key and allow the system to retrieve log information from the key. It adds to overall system security.

Now that a new authorizer has been added to the system and a key has been chosen to use the authorizer, the authorizer must be updated with the key information. This is done with a program called vCom.

vCom is a communications utility that synchronizes Authorizers with the CyberAudit database. Once the program is installed and started, it will poll the Authorizer automatically and perform the

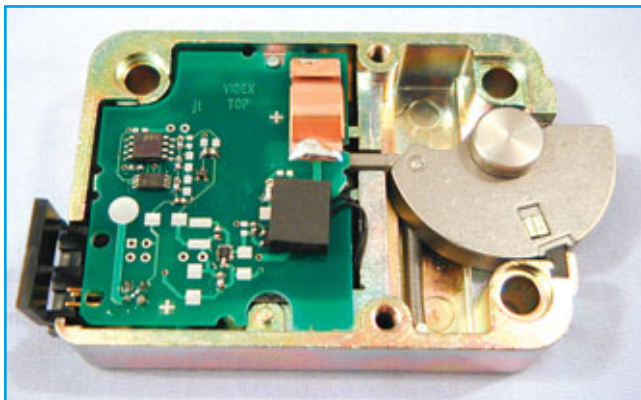
updates. When updates are complete, the change icon (yellow C) on the main Authorizers screen will go away. (See photograph 20.)

To use the keyport, simply insert the CyberKey. If a PIN is required, the display will prompt you to enter it. A PIN can be from 4 to 8 characters long. A pound sign "#" must be entered after the PIN. By requiring a PIN, the key can only be updated by its owner. That's all there is to updating a CyberKey.

Because the key and the lock both hold audit information, this is one of the most powerful systems on the market.

The audit information is automatically sent to the computer every time the CyberKey is docked at an Authorizer or a CyberKey station. Audit information can be retrieved from the lock by using the computer software (CyberAudit) to instruct a key to get the information when touched to the desired lock. When the key is returned to the CyberKey station, the computer sucks the locks audit information from the key. What do you think of that?

The CyberAudit software can support up to 16 hubs. Each hub can have either one or two keyports. The Keyports must be within 100 feet of the



23. The circuit card inside the LaGard 3200 series lock has been replaced with a special circuit card from Videx.



24 The addition of a special keyport provides dual control.

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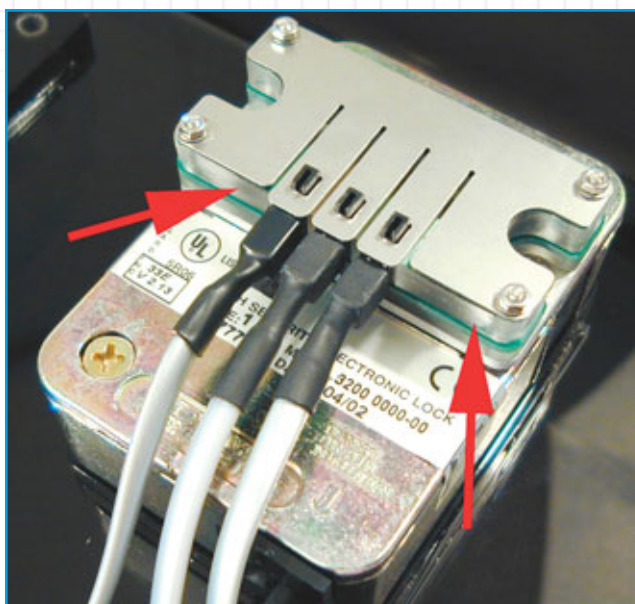
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25. A special electronic switch can transform a standard LaGard 3200 series lock into a CyberLock.

Authorizer hub. The Authorizer hub must be within 250 feet of the computer or Ethernet system hub.

Before I go, I want to show you two new safe locks that use the CyberKey system. The first is a keypad activation switch that is designed to replace LaGard and some S&G electronic lock keypads. (See [photograph 21.](#)) The CyberKey provides access control and audit reporting and eliminates someone else acquiring a keypad combination and accessing the safe without a physical device such as a key. The keyport attaches to the safe door using the same holes as the dial ring. (See [photograph 22.](#)) The original LaGard circuit card is replaced with a special card from Videx to complete the system. (See [photograph 23.](#))

Another CyberLock product provides dual control or dual custody for LaGard electronic locks. (See [photograph 24.](#)) This product requires the addition of a keyport and a special device to a model 3200 LaGard. (See [photograph 25.](#))

Normally with this lock, you would simply punch in the access code and the lock would open. With the addition of the CyberLock system, the device seen in [photograph 25](#) interrupts the power to the keypad. When the CyberKey is inserted into the keyport, the circuit between the lock and keypad is restored. Punching in the access code now will open the lock.

This is some cutting edge stuff that Videx has come up with. As always, the product quality is excellent! If you can dream it, they can build it! Have a nice day.

*If you would like more information on the CyberLock system, give Videx a call at (541) 758-0521. You can also visit their web site at www.videx.com. Circle 317 on Rapid Reply. **TNL***

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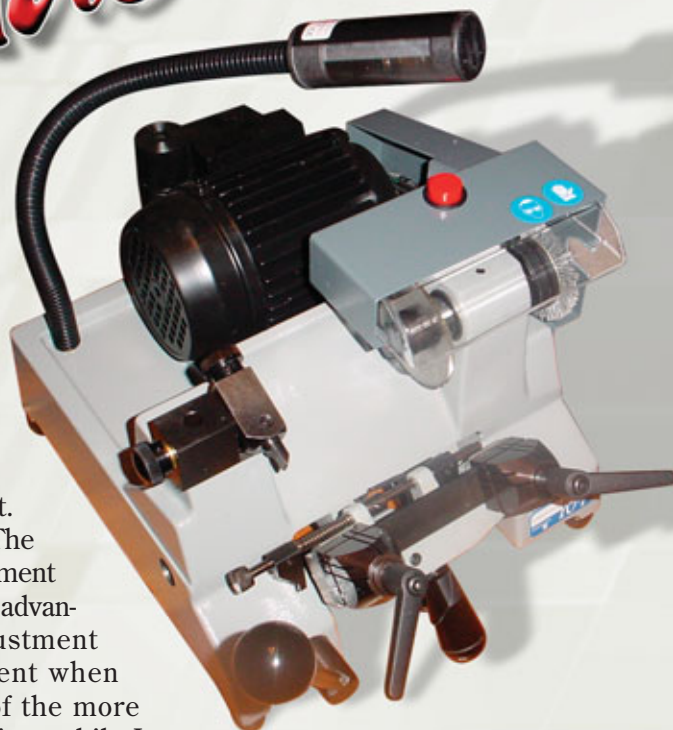


by
Sal Dulcamaro,
CML

Bianchi is a fairly new name in the American market for key machines. In Italy and Europe, though, it is an old and well-established company. Among their machines is the model 104, which is solid and heavy duty. (See photograph 1.) Not only that, it comes with its own flexible shaft light to give you a bright and clear view while you are cutting keys. Just watch out that you don't get a hernia trying to put this machine on your work counter. The bodies of these machines are made from iron castings. The model 104 is a semi-automatic key machine with a lot of power. This key machine uses dual drive belts to transfer power from the motor to the cutter. (See photograph 2.) A deburring wheel/brush is included. The 3-inch plus cutter wheel is larger than your typical key machine cutter. (See photograph 3.) With the corresponding greater number of cutting teeth, this cutter should have a longer cutting life.

Most key machines have an adjustable tracer guide to allow

1. Bianchi model 104 key machine.

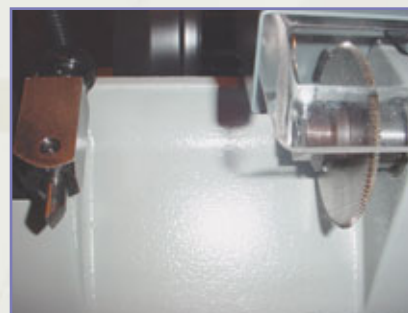


calibration when the depth of cut is off. The Bianchi machines have a tracer guide that allows for both depth and space adjustment. (See photograph 4.) The need for depth adjustment is fairly obvious. The advantage of spacing adjustment becomes most evident when dealing with some of the more unusual keys. Once in a while I need to duplicate keys with shoulders only on the bottom. When the spacing of the shoulder stops of the key machine's gauge fork are not precisely matched to the spacing of the jaws of the key vises, there is no quick and easy way to properly align your original and duplicate keys for cutting. By adjusting your tracer guide for key spacing, you can perfectly match the spacing of your jaws to the spacing between cutter and guide. Then you can use the jaws of the key vises alone to gauge the bottom shoulders of your keys.

The key vises are widely spaced to account for the longer keys that are now made. Both key vises have four-way jaws to allow secure gripping when cutting a wide variety of keys. (See photograph 5.) The key vises have lever



2. The machine uses dual drive belts to transfer power.



3. The 3-inch plus cutter wheel.

handles that make tightening keys in the jaws less uncomfortable. A tool kit comes with the machine. The kit includes an open-end wrench and assorted Allen wrenches for key machine service or adjustment. There are additional accessories for holding awkward keys or for use as key stops.

The model 104 has the look and feel of a solid workhorse key machine. It should be able to cut a large number of keys accurately without much need for adjust-

ment even though the capabilities for adjustments are built into the machine.

The Bianchi 101 Manual Key Machine

Still featuring a cast iron body, but shorter and not as heavy; the model 101 manual key machine is also a very solid machine. (See *photograph 6.*) The cutter on this machine is direct drive with the shaft moving the cutter wheel protruding directly from the electric

motor. (See *photograph 7.*) There are no belts to replace here. The cutter is closer in size to those used in most common key machines.

The tracer guide, though slightly different in appearance compared to the Bianchi model 104, can be adjusted for both depth and spacing like the model 104. (See *photograph 8.*) Similarly, you can precisely match the spacing of the cutter and guide to exactly match the spacing between the key vises. Like the Bianchi 104, this gives



▲ 4. The 104 tracer guide.



▲ 5. Four-way jaws.



▲ 6. The Bianchi model 101 manual key.



▲ 7. The cutter on a direct drive shaft.



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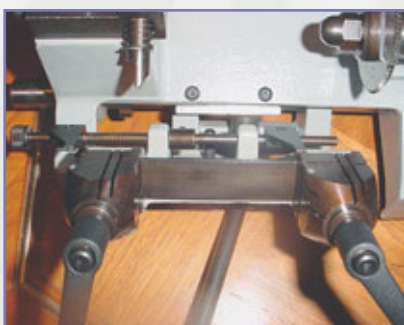
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▲ **8. The 101 tracer guide.**



▲ **9. The movable key stop gauge fork.**



▲ **10. 4-way rotating jaws.**



▲ **11. An interesting detachable lever handle on the 101.**



▲ **12. A tool kit similar to the one included with the model 104.**



▲ **13. A backside view of the key machine.**

you the ability to use the key vise surface as an accurate stop for bottom shouldered keys or other specialty key variations. These key machine features allow you precision key duplication for a fairly wide variety of keys that your customers might need duplicated.

The movable key stop gauge fork is similar to one used in the model 104. (See photograph 9.) Just as with the Bianchi 104, the key vises are widely spaced to allow for duplication of very long keys. A very recent model upgrade, the model 101 has recently been converted from a key machine with 2-way jaws to one with 4-way rotating jaws. (See photograph 10.) This should allow for greater versatility in holding otherwise difficult to hold keys.

Although the Bianchi 101 is a manual machine, it has an interesting detachable lever handle. (See photograph 11.) With the lever handle attached it acts sort of like a semi-automatic key duplicating machine. Unlike the model 104, it has no spring-loaded carriage to keep the original and copy keys up against the guide and cutter. Forward motion on the lever handle would

be needed to maintain even contact with guide and cutter. Also there is no micro switch (as with the Bianchi 104) that automatically starts the motor when the carriage is raised. For key duplication, you would use the lever handle to move the keys (within the vises) into contact with cutter and guide, and create side-to-side motion for tracing.

If you don't own a code machine, detaching the lever handle will allow for much greater control when using depth keys to duplicate specific cuts rather than a whole key. Like the model 104, it should also give you precise key copies when doing standard key duplication. Without the spring action of the carriage (found in the model 104), precise code cutting with depth keys is also possible with the Bianchi 101.

A tool kit similar to the one included with the model 104, is also included with the Bianchi model 101 machine. (See photograph 12.) A backside view of the key machine shows where the detachable power cord attaches. (See photograph 13.)

The model 104 also has a detachable power cord. With the weight of the Bianchi key machines, it is actually beneficial to be able to detach it so a dangling cord is not in the way while you are trying to set up your new machine on your work counter. Once it is in place you can connect the power cord. One other feature found on both machines (that I hadn't mentioned earlier) is that the guide and cutter are angled slightly down to give you a better view of what you are doing while cutting keys. Visibility is better than with a straight on view. The line from Bianchi appears to be a rather solid line of key machines and worth checking into for locksmiths looking for a new machine.

For more information on their products, contact Bianchi USA Inc., 31336 Industrial Parkway, Suite 3, North Olmstead, OH 44070. Phone: 440/716-8006. Toll Free: 800/891-2118. FAX: 216/803-0202. You can find them on the web at: www.bianchi1770usa.com. E-mail: info@bianchi1770usa.com. Circle 316 on Rapid Reply. **TNL**



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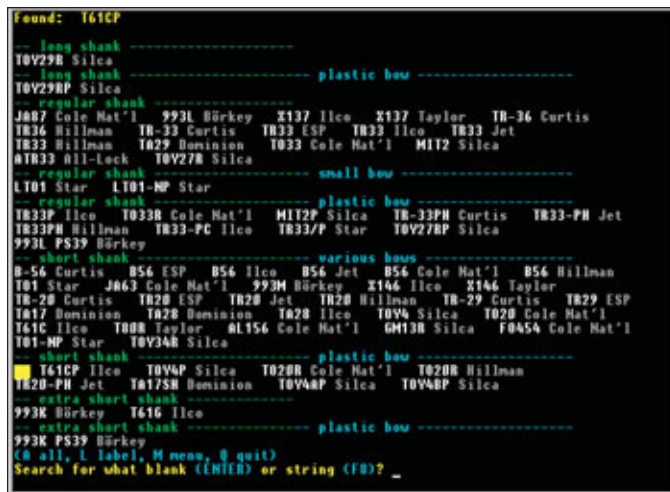
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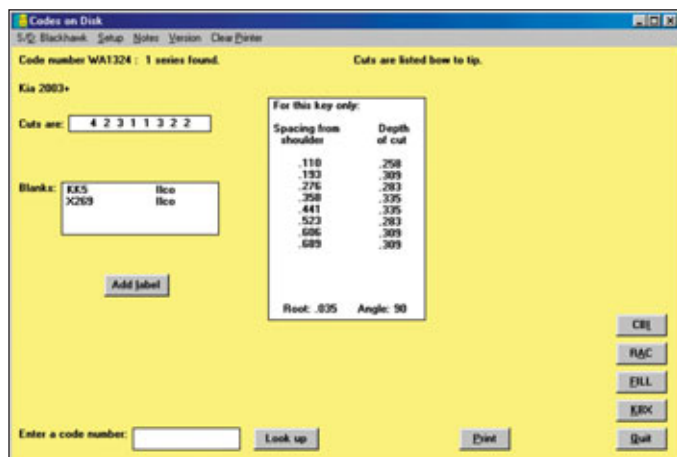
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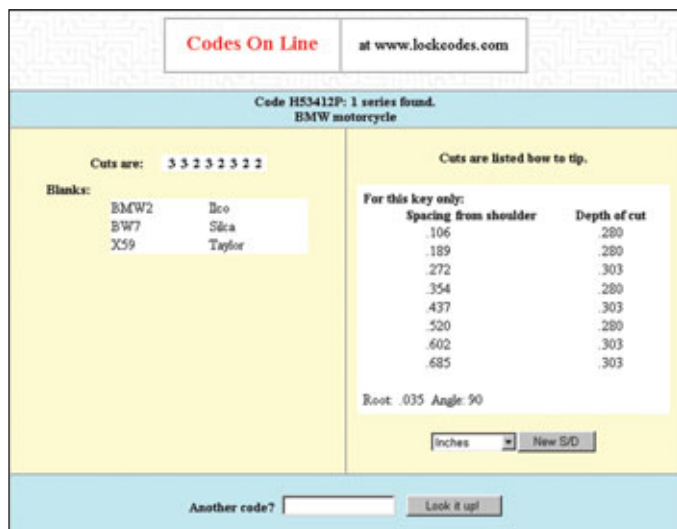
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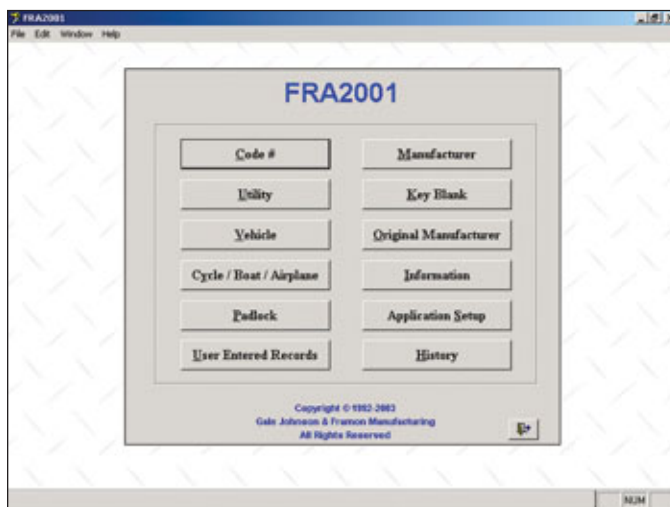
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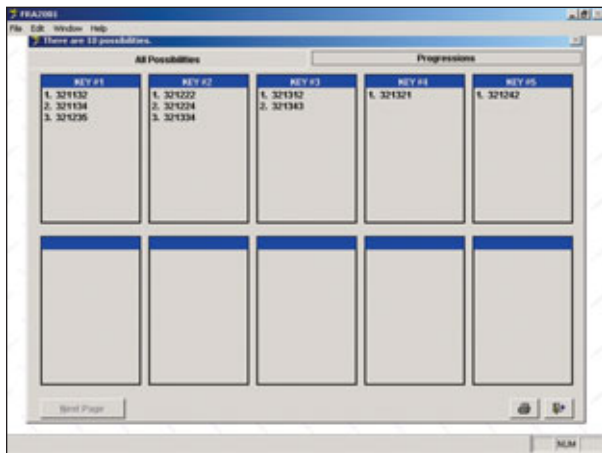
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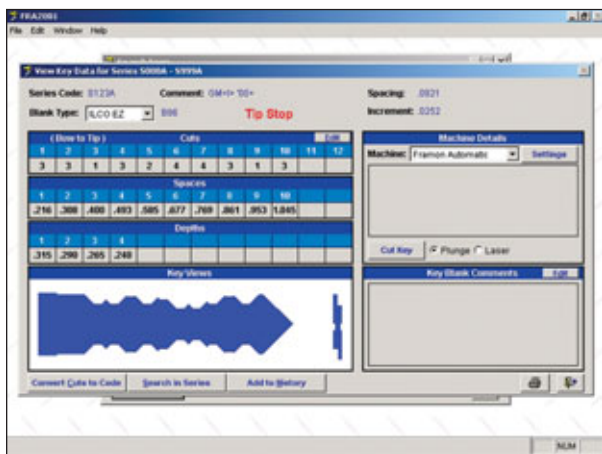
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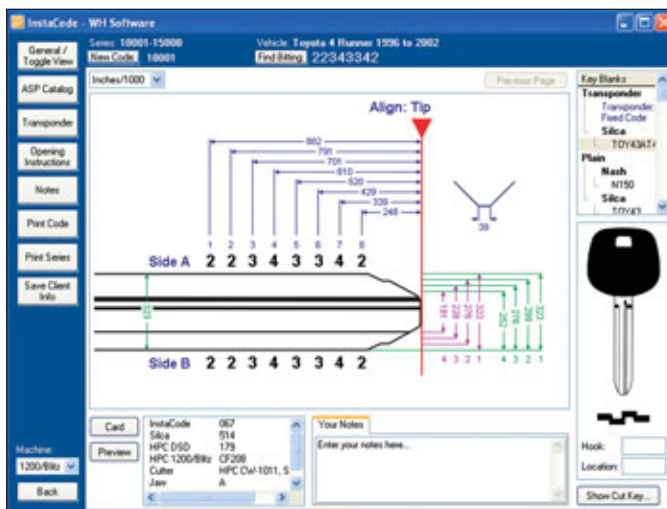
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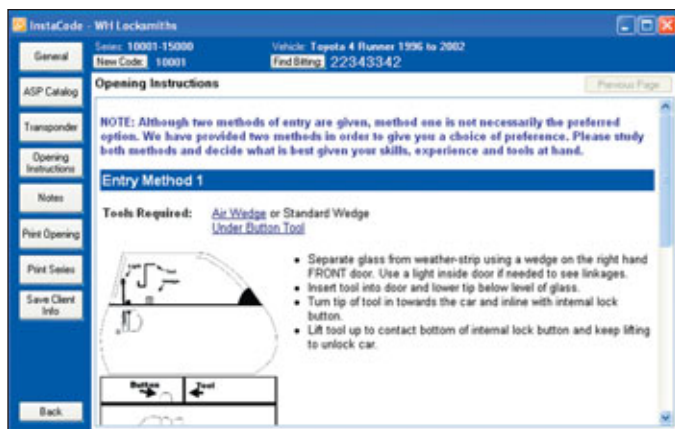
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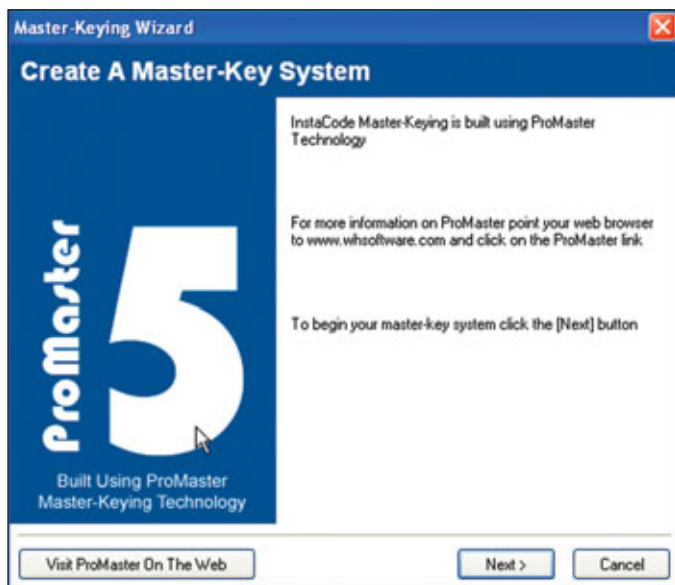
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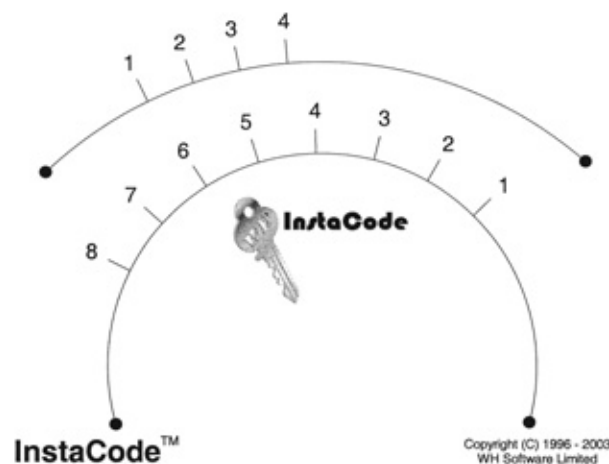
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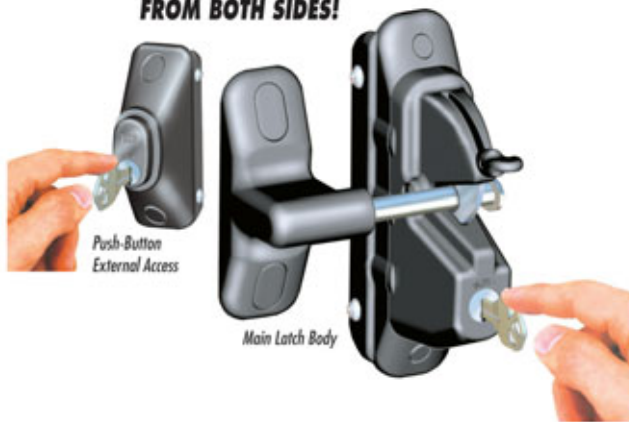
Most locksmiths have been asked to replace traditional gate latches when they've become so rusty they no longer latch when the gate closes. Up until now, there were few alternatives other than replacing the latch with another metal device, subject to the same reaction to the environment.

D&D Technologies has introduced an outstanding alternative: A gravity-style latch that will not rust, stain, or corrode, and which boasts a smooth, reliable latching action. The Lokk-Latch® PRO is a sophisticated privacy and security gate latch stylishly designed from molded, rust-proof polymer materials and 316-grade stainless steel components.

The Lokk-Latch PRO features a 6-pin key-in-knob cylinder that can be locked or unlocked from either side of the gate simultaneously. It can be keyed-alike to most household doors. (See figure 1.)

This clever technology means there's no longer the need to drill a hole for a string,

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1. The Lokk-Latch PRO.



2. The latch can be opened from the outside.

so that the latch can be opened from the outside of the gate (which compromises security, as it must be left unlocked to

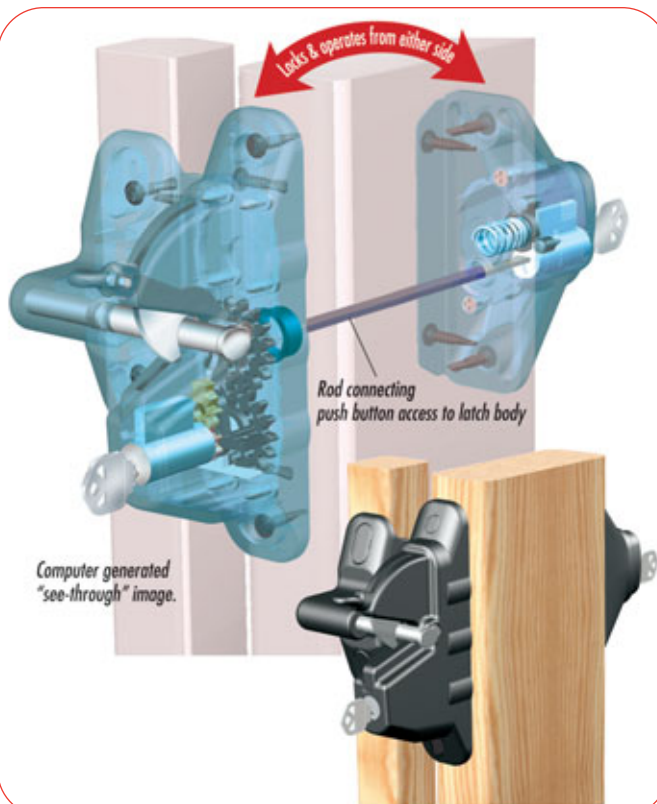
enable this type of access). (See figure 2.)

The latch has a C4-pathway, and the A-style cylinder can be replaced with a high-security, UL 437-rated cylinder. If homeowners would like to have the latch re-keyed or keyed-alike to another door, it's recommended the locksmith do this *before* the latch is installed. It can be re-keyed after installation, but the screw plugs that

enhance the security of the latch may be difficult to remove. Contact D&D for replacement plugs if they are damaged during removal.

The Lokk-Latch PRO is designed to keep unwanted intruders out when used on privacy gates. The latch has a uniquely constructed, patented gear-train that works effectively in both home and commercial gate applications. (See figure 3.) The opposite side of the latching mechanism (usually, the street side access) features a lockable push-button device for quick and convenient key-access.

There are two models of the Lokk-Latch PRO,



3. The latch has a uniquely constructed, patented gear-train.

differentiated by long and short side-fixing legs, to suit vinyl, wood or metal gates. (See figure 4.) This latch accommodates post depths ranging from 1.5" to 5", and is easy to install. A fitting jig is supplied, and latch installation requires no welding.

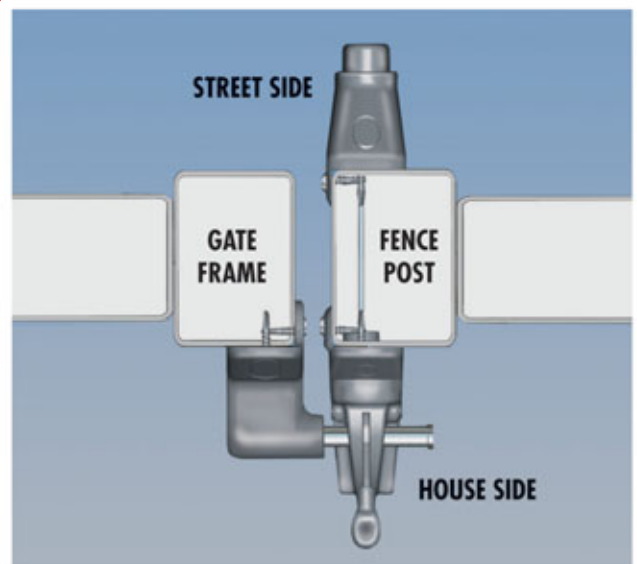
Here's how to install D&D's Lokk-Latch PRO on wood or metal gates:

1. Determine the desired height of the latch. *Note: the latch body must be installed on the same side of the gate as the*

the side of the gate on which the hinges pivot.

2. Take the supplied fitting jig and position it on the latch. (See figure 5.) Insert a fine pencil into "hole 1" and mark the post. Also make a pencil line across the top of the fitting jig as shown by (L).

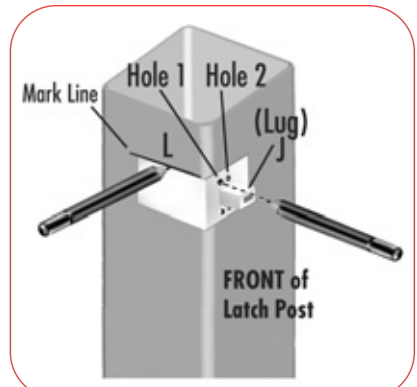
3. Move to the rear of the latch post and locate the jig so it is directly opposite the first marked hole, lining the top of the jig up with the marked line (L). (See figure 6.) Mark the rear "hole 1" center.



PLAN VIEW - showing application on a metal gate

4. There are two models of the Lokk-Latch PRO.

hinges, so that it will self-latch. If the gate uses "butt hinges," install the latch on



5. The supplied fitting jig positioned on the latch.

4. Using a 3/16" drill bit, drill a precise hole through both sides of the metal post using the marked hole centers.

5. With a 1/2" drill bit, and using these pilot holes as guides, drill through both sides of the post.

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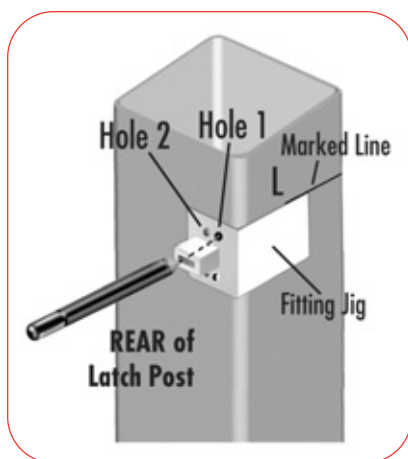
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6. Line the top of the jig with the marked line (L).

6. Take the “push-button assembly,” and insert the tail (T) through the back side of the post so that the assembly is pressed firmly against the post. (See figure 7.) *Note: Do not insert the key. Temporarily secure the latch using several of the self-drilling screws supplied.*

7. Before the main latch body can be installed, the tail (T) needs to be cut to the correct length. To achieve this, ensure the protruding portion of the tail sits parallel to the ground, and place the jig over the tail as shown in figure 8. Mark at the end of the lug (J) with a fine pencil line.

Remove the push-button assembly and use a hacksaw to cut the tail at the marked line. File smooth any rough or sharp edges of the tail. Secure the push-button assembly using all four self-drilling screws supplied.

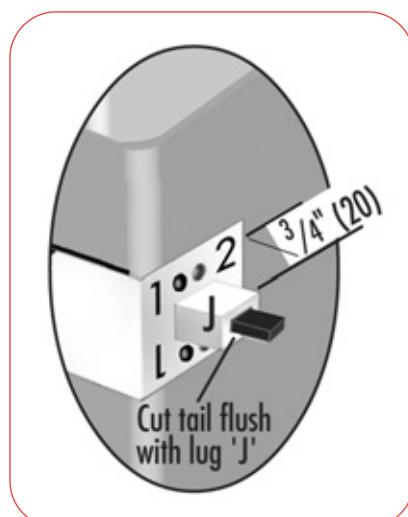
8. Leaving the tail in the horizontal position, insert a key into the latch body and turn the key counter-clockwise to lock. You will hear two clicks as you turn the key.

9. Take the latch body and locate the molded center spigot in the rear of the latch. Insert the spigot over the tail and into the hole. Ensure that the latch body is pressed firmly against the post and secure the latch

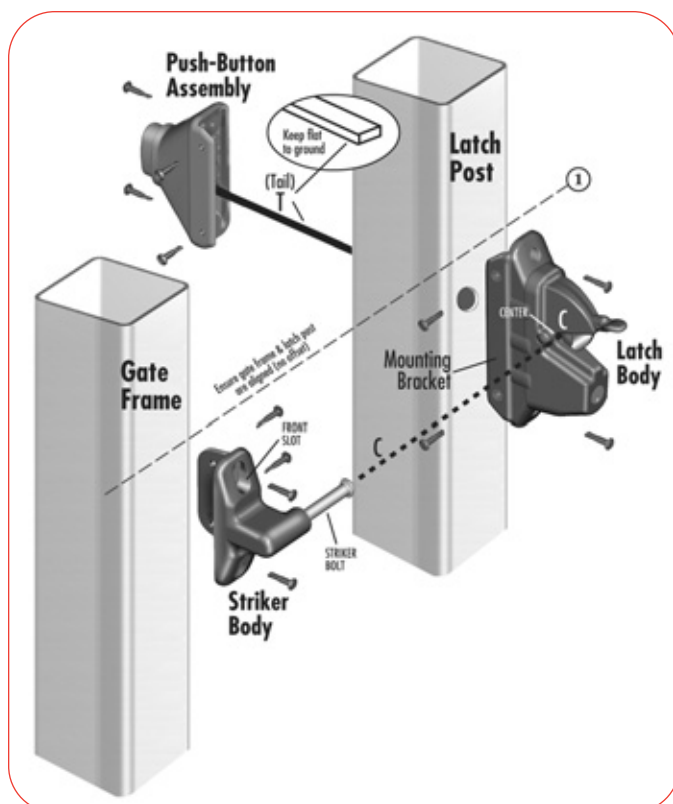
using four screws. Unlock the latch with the key.

10. Close the gate. Take the striker body and locate it on the gate frame so that the striker bolt is aligned with the center of the latch as indicated by dotted line “C.” (See figure 7.) Maintaining this alignment, and ensuring the striker body is pressed firmly against the gate frame, secure the striker body with two screws in the center of the two front slots. (The center fixing allows for future re-alignment.) Now open the gate and check the striker bolt alignment and operation with the latch body. Install the remaining screws in the side-fixing leg.

11. Check for correct operation and adjust as necessary. Insert dress caps into the screw cavities.



8. The tail (T) needs to be cut to the correct length.



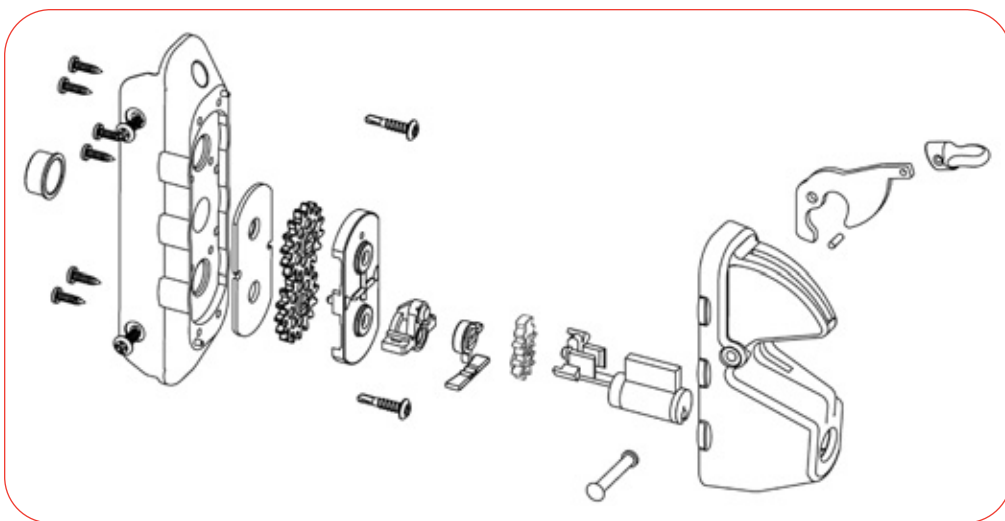
7. Align the center of the latch with the dotted line “C.”

Note that mortising—or recessing—wood is required for wood gates with very small gaps between the gate frame and latch post. Instructions for doing this are provided with the latch.

A separate model, with a longer side-fixing leg, is available for vinyl gates. Both models are available in either black or white.

The Lokk-Latch PRO is supplied ready for installation onto right-hand fence posts. To change the configuration to fit left-hand fence posts, carefully remove the six screws from the rear of the latch body, ensuring the internal components are NOT disturbed. Once the six screws are removed, rotate the mounting bracket 180°. Re-fit all screws.

If the parts of the Lokk-Latch PRO should inadvertently separate during this process, use the exploded view drawing for re-assembling. (See figure 9.)



9. The exploded drawing for re-assembling.

When you've mounted the latch on a left-hand post, you must also reconfigure the Push-Button Assembly. Remove the two internal screws. Then remove the complete lock mechanism (button, spring, and metal rod/blade) from the housing and rotate it 180°. Ensure the spring sits correctly in seating recesses, and replace the two screws.

For proper maintenance, the customer should be instructed to remove the key from the lock after each use. No parts of this latch should be lubricated with an oil-based lubricant, and screws should be tightened firmly. The home or business-owner should periodically remove dirt, sand or other debris,

which could impair reliable performance. The Lokk-Latch PRO comes with a limited lifetime warranty.

D&D Technologies reminds locksmiths that, for child-resistant pool and safety gates, the Magna-Latch magnetic safety gate latch is the best choice. Consult your local building & safety department for information on pool codes for your area.

For more information on the Lokk-Latch PRO or D&D's other gate and door hardware lines call: 1-800-716-0888, ext. 231 or contact the company via e-mail: gateway@ddtechusa.com. See circle #329 on Rapid Reply.

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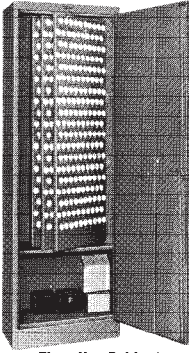

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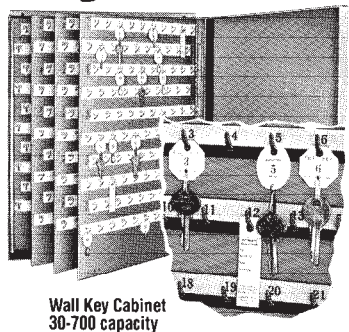
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
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
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Beginner's Corner



A Sticky Situation With Ford's 8-Wafer Ignitions

By Ken Holmlund

As I mentioned in a previous article, every brand of vehicle seems to have a reoccurring problem peculiar to that brand, and the Ford eight-wafer ignition seems to have just that. I have encountered the problem in at least four Ford vehicles in the past two months. That is significant, considering the population of Eastern Montana. I believe it is a problem that most of you will encounter if you do automotive work.

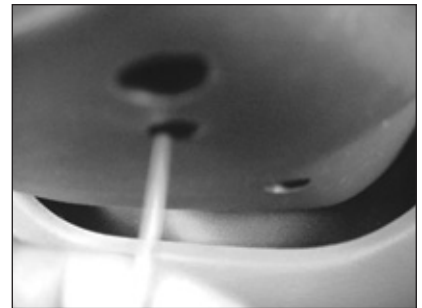
The problem seems to occur without any warning to the vehicle owner. The problem I am talking about is failure to be able to turn the ignition even though you have the correct key and it just worked a minute before.

We are all familiar with the usual list of problems that cause this to occur, steering wheel turned tightly enough to put too much pressure on the mechanism, broken key buzzer actuator, worn ignition, or worn key or even the wrong key. None of these apply in this case.

My first exposure to this problem was on a 1999 Ford Taurus. The local dealership had just sold the used vehicle and the purchaser drove the car to a parking lot. Upon completion of their errands, they proceeded to the vehicle and found the key would not turn. The dealership sent their "specialist" out to fix the problem, but he was unable to get the key to turn either. Call the locksmith they cried, and so they did.

Upon arrival I tried all the usual remedies, turning the steering wheel while trying to turn the key, jiggling the key, running the key in and out quickly several times, but nothing worked. The customer was getting more anxious by the minute, so the dealer told me to force the ignition and they would pay for replacing it. One thing you will have to understand is that the new eight wafer tumblers are much heavier than the older ten wafers. Forcing the lock proved to be quite a project, but finally the job was done and the ignition turned. The vehicle was started and driven to the dealership where I keyed the new ignition and replaced the damaged one with it. Problem solved. Wrong!

Not two weeks later the same dealership called with the same problem on a 2000 Mercury Sable. I hate to have to force the lock if it is possible to find a better solution. Since the owner of this vehicle was not in any real hurry, I decided to try several things before resorting to force. I tried the jiggling, the lubricating and running the key in and out to no avail. I decided to try cutting another key so I would not harm the original and then rap on it a few times to see if the wafers would fall into place. BINGO!! They cooperated and the lock turned. Once it is turned to the "On" position it comes right out in the usual Ford method, by pushing on the lock through the poke hole. (See *photograph 1.*)



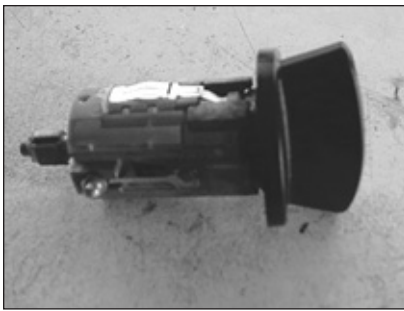
1. Ford poke hole.

My feeling on this problem is that if it happens once, it will happen again with the same lock, so it should be replaced if possible. Let's take a look at the procedure to rekey the lock since it is slightly different than some previous versions of Ford ignitions.

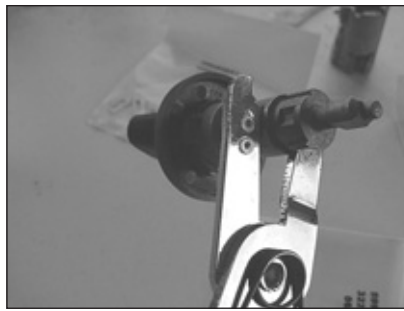


2. Ford 8-wafer ignition.

The style of lock we are discussing here is seen in the ignition in *photograph 2*, and out of the vehicle in *photograph 3*. If you have an uncoded ignition lock you will likely have something like you see in *photograph 4*. It contains an assortment of parts including wafers and grease, as well as springs, balls, and the usual plug and housing. Keep them in a safe spot because you will need them. The replacement ignitions



3. Ignition out of the column.



6. Using the Wafer Popper.



7. Wafer and spring.



4. New uncoded lock.

are available from several manufacturers including Auto Security Products, model numbers C-42-131 through 135, Strattec, model number 707624, and BWD Lockcraft model number LC6177U.



5. The Wafer Popper.

If you do not have a replacement lock and elect to replace the wafers, I suggest using the Wafer Popper by Gator Tools. (See photograph 5.) Photograph 6, shows the popper in action. The tool really works and it eliminates the damage from using a screwdriver, not to mention the deep cuts in your fingers.

Once the old wafers are removed, the new ones will have to be installed. The procedure from here on will be the same regardless of whether you use a new or existing lock. The wafers

are available in the packages marked by wafer number. Be sure to install the springs before


placing the wafers into their home. (See photograph 7.) When the correct wafers are in place

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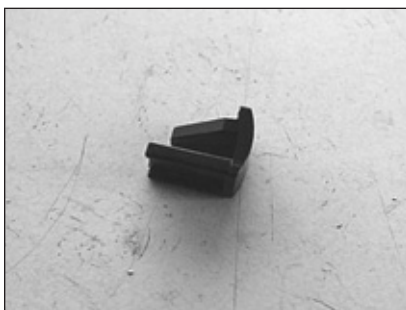
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8. Wafers in plug.

they will all line up with the shearline. (See photograph 8.)

No matter which way you choose to do the job, you will have to work with a couple of nuisance parts that can cause you fits. One part is the plastic part used to activate the key buzzer. (See photograph 9.) This will have to be



9. Key buzzer actuator.

in place before putting the plug into the body of the lock. It will fall out easily and must be replaced in the correct direction or the plug will not enter the body of the lock. You will soon see the correct direction, but just be aware it can be a problem. (See photograph 10.)



10. Buzzer actuator in place.

The other one is the spring, and the ball that have to be placed in the retainer hole and then pushed into place while you turn the plug. (See photograph 11.) It sounds easy enough, but it can become a nightmare, especially if you loose



11. Spring in body.

the ball. Some packages will have a second ball in them and I believe it must be because of people like me who have lost at least one or two while doing the job. I have found that if you use a 1/16" nail set you can push the ball down far enough to be able to turn the plug easier. A little grease will help hold everything in place as well. When you have turned the plug counterclockwise, the ball will spring into place and keep the plug from turning far enough to come apart again.

Now you can slide the plug into the body of the lock, using care to be sure everything is lined up correctly. Do not use force. Needing force should tell you something is not lined up. Take it back out and see what is not right. Once everything is in place the key should turn easily.



12. Retainer in place.

You can now place the retainer into the body of the lock by slipping it under the flat spring and snapping it into place. (See photograph 12.) The retainer will not enter the plug until you have turned the key to the on position, at which time you should be able to easily push the retainer in flush with the outside of the body of the lock. Obviously, this is the method Ford has chosen to use to hold the lock into the column.

Next you will have to attach the electronics used for the key buzzer. It just slides into place on the side of the lock but be sure you have it lined up correctly, before pushing up on it or you may wish you had a spare one of those also. (See photograph 13.)



13. Electronics in Place.

You now have the lock ready to replace in the vehicle. Just turn the key to the on position, push the lock into the column and turn it back to the off position. It is that easy because you have a working key.

Working on these ignitions is much the same as any new item. Once you have done a couple of them it will seem like second nature to you. New ideas on automobiles will be a yearly thing from now on and we will have to learn how to handle them as they come on the market. That is really one of the fun things of this profession.

The tools and parts I have talked about in this article are available from your wholesaler but if you choose to contact the manufacturer here is that information.

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Something Else



by Sara Probasco

I guess most towns have their “Miss Marthas.” They’re the fiercely independent little old ladies who live alone in big old houses so overgrown with ivy you can’t be sure if there’s a second story up there, or not. Often, children in the neighborhood are a bit afraid of them, calling them names like “The witch” or “The cat woman,” and attributing a wide assortment of wicked spells and incantations to their capabilities. Such women never seem aware of the taunts. Either that or they’re too deaf to notice or too old to care.

Our Miss Martha lived in one room of the house that had been in her family for generations. The room she had chosen for herself was originally the sitting room, but she had her bed moved there years ago—then a hot plate and little refrigerator—and it had eventually become the only part of the house she occupied. Just as well. Stacks of old newspapers, furniture, and an assortment of trash and treasures filled the other rooms to overflowing.

From time to time, rumors would surface about Miss Martha. Some said she had a fortune in antiques under all the mess. Others were sure she’d buried the bones of a dozen relatives in the cellar or between the walls, over the decades—and who knew *how* they died! Neighbors seldom stopped by for a cup of tea or a glass of elderberry wine, so nobody really knew much first hand.

Miss Martha had no telephone and no relatives that anybody knew of, but she had seven cats to keep her company and a parrot to announce intruders. The locals joked that the parrot would call out, “Jesus is watching you,” whenever anyone came into the house. They also said Miss Martha had a Doberman pinscher named Jesus.

Miss Martha didn’t own a door key, but that was all right. She never locked her doors anyhow—not even the latch on the screen. She wasn’t afraid of burglars. Besides, she was of a generation who thought locked doors seemed a mite inhospitable.

In contrast was old Mrs. Greenlee down the block.

Mrs. Greenlee had been a widow for thirty some-odd years. She was scared to death somebody would come into her house uninvited. In fact, she was convinced they did. At least twice a week she would call us, insisting that somebody had been in her house rearranging the furniture or stealing one thing or another.

Once, she even claimed it was her brother-in-law who lived next door. He’d been a policeman for most of his life before his retirement some fifteen years ago. She knew for a fact he could pick his way into any lock made by man or machine. She claimed he was getting into her house at night after she’d gone to sleep, and was stealing food out of her refrigerator. Then somebody had gone upstairs

to her bedroom one day while she was out, and had stolen her poor departed husband’s best suit from off the back of his easy chair; where he’d laid it out to wear the day he died—a fact her granddaughter later refuted, saying they’d donated all his clothes to Good Will years ago.

We’d done our best to help Mrs. Greenlee secure her house when she first began to call us on a regular basis. First, we re-keyed the locks, then we replaced them with better, more secure ones. Finally, we installed ASSA entry locks for her. When she still insisted her brother-in-law was getting in without a trace, and that he’d eaten her left-over peach cobbler out of the refrigerator—even washed the pan and put it away in the cabinet so she wouldn’t know—we decided it was time to check into the situation a little deeper. That’s when we contacted her granddaughter.

“I’m afraid Grandmother’s losing it,” she said. “We try to keep her happy and not contradict her when she tells these outlandish tales. Just do what you can for her and send me the bill.”

After Mrs. Greenlee had us install all new locks, with several on each outside door, we told her that was it.

“I sorry, but we just can’t keep replacing or re-pinning locks when nothing seems to help. If this doesn’t do the trick, you’ll need to call somebody else. We’ve done all we can,” Don told her gently.

A couple of months passed, and she called again. This time, it wasn't concern over anybody getting into her house. She'd come in the evening before, locked her storm doors and every deadbolt, throw-bolt, and chain on her doors, and gone to bed. The next morning, she got ready to go to the grocery store and couldn't find her keys. That meant she couldn't get out of the house, because she couldn't unlock her doors.

"I know they're in here some place. I had to have them to get in, and I used them to lock up before I went to bed last night. I just can't find them," she said, almost in tears.

Don agreed to come over and pick open the doors from the outside. He remembered from past experiences that the front door was the dickens to get open, so he'd need to go in through the back. The storm doors locked with an inside manual latch, so there was no key-way to pick, so he decided to try the windows, thinking maybe he'd get lucky and find one open—or at least one that wasn't locked. If all else failed, he decided he could resort to breaking one and getting in that way.

He'd forgotten every window was covered over with heavy iron burglar bars. Besides, the windows had all been nailed shut and painted in place years ago. Apparently, Mrs. Greenlee had thought of everything except how to get out of the house when she misplaced her keys.

Something he didn't know was, Mrs. Greenlee had recently added a little outside protection. She'd gotten a big, mean cur of a dog from the city pound, and her fenced back yard was his.

Brushing away the growling dog, Don wedged and pried the storm door, trying to get it to bow just enough to let him pop it open.

Finally, it did, but it just wasn't his day. While he was picking open the deadbolt, the dog grabbed his pants leg and snarled, yanking and pulling until he tore it to shreds. Finally Don got the deadbolt open and used the key Mrs. Greenlee's granddaughter insisted he keep on file at the store to open the entry lock, but that was as far as he could go. He'd forgotten Mrs. Greenlee had an ancient Sargent surface-mounted latch-type lock on that door. It too had a keyway, but

since it was mounted on the inside of the door, there way no way he could get to it to pick it open.

Don had just about given up hope and was seriously thinking about breaking in the door, when a delighted Mrs. Greenlee called out to him. "Never mind. I found my keys down in the bottom of my purse. Can you imagine? Isn't that something else!"

He agreed that it was.

So was the amount of Don's bill.

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TREADLOK

Again



by
Dale W. Libby,
CMS

The TREADLOK Gun Safe is one of the more popular gun safes in the Midwest. The fact that I am called on to open these units have made me quite familiar with their unique features. They come with a variety of Sargent & Greenleaf locks, both mechanical and electric as well as ILCO Precision 6700 series combination locks. (See *photograph 1.*)

This safe was delivered to Bob Sieveking's workshop in Rockford, Illinois. He called me out to play and open a couple of safes. When I arrived at his machine shop I was confronted with the TREADLOK safe with a manipulation apparatus attached. (See *photograph 2.*) The ILCO dial is fitted with a Lee Manipulation ring and a long pointer, which is held in place by a setscrew. The piece of tape is to show and record contact points with the help of another magnetic pointer. Rounding out Bob's

manipulation equipment are two magnetic microphones attached at the bottom of the dial ring. Note the plastic dial center.

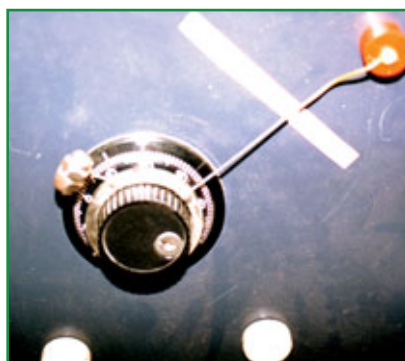
After spending some time trying to manipulate the lock, we decided on the quick foolproof way of opening the safe. We will drill beneath the dial with the StrongArm Mini-Drill Rig. First, a picture of the door. (See *photograph 3.*) The dial and ring are located in the center of the door above centerline. The opening handle is located 12" directly below the dial ring. The opening handle looks a little "Mosler-ish." One might think that the combination lock might be mounted Vertical Down, but it is mounted Horizontal Left. If you drilled in the wrong place, you would just have to scope and transfer to the correct position. Another drilled hole is not needed in these situations.

In *photograph 4*, is shown a close up of the ILCO dial with the center plastic cover plug removed. There are already two drilled holes in this dial as well as a wafer tumbler day lock. We decided to pull the dial instead of slamming it off. Pulling the dial with a slam type puller can deform the wheel post or the bottom of the lock body. Bob had a great idea. We would make a specific dial puller for this specific dial. It was easy. We were in Bob's machine shop where Sieveking Products are made.

We found a piece of scrap steel and marked off two holes 1-7/8" apart. We drilled them to a 1/4" diameter. We then tapped the center of the plate for a 5/6" x 18 threaded hole. We could not find a 5/16" x 24 bolt. The finer the thread, the easier to pull. The two holes in the dial were tapped for size 12 x 24 threading which is a popular thread size in door work. The total time it took to



1. The TREADLOK safe.



2. Manipulation with a weighted LEE dial ring and pointer.



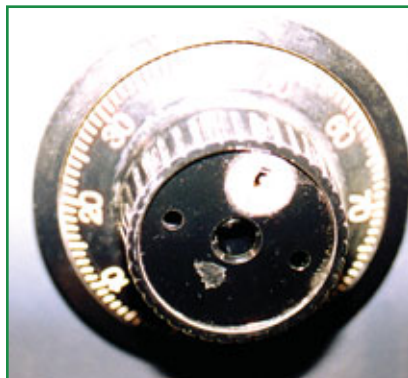
3. The ILCO dial is above the handle in the center of the door.

make the puller was about 5 minutes. The results are shown in *photograph 5*. The dial is almost off the spindle.

To facilitate pulling the dial off the spindle, we used a short 1/4" diameter piece of steel to push against the 5/16" spindle. This 1" piece made the dial pulling easy.

After taking away the dial, the dial ring proved hard at first to remove. Two screws as well as 4 pieces of double-faced tape held it on. It had to be pried off the gun safe door. (See *photograph 6*.)

One of the best drill rigs is the StrongArm Mini-Rig (See *photograph 7*.) It has made many lock-



4. Close up of dial with plastic button removed.



5. The Sieveking Precision Dial Puller.



6. Dial ring held on with two screws and 4 pieces of double-faced tape.

smiths into safemen. It has unfortunately made many other service people into so called safe technicians. It is easy to master and makes opening some safes

straightforward and precise. This rig has a lot of information built into it. It almost seems too easy. I attached the rig to drill for the end of the fence and the edge of



7. StrongArm Mini-Rig drilling for a horizontal left hand mounted lock.




8. Inside shot of combination lock and geared handle cam with large counterweight.




9. Lock cover removed.

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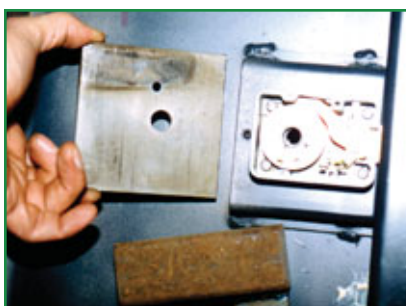




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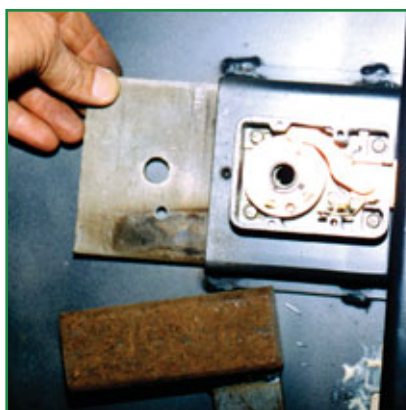
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10. Hardplate removed after setscrew loosened.

the combination lock wheels. The drill point is at 97. Once drilled, you can look into the safe with an otoscope and dial the lock open without transferring the gear position.

Once the lock is dialed open the inside of the safe is a straightforward design as shown in *photograph 8*. The lock is mounted Horizontal Left on a welded bridge mounting plate. The end of the bolt fits into a slot of a vertical bolt bar. This bar acts as the first stage of a two-stage bolt system. As the vertical bar moves



11. Hardplate flipped over and reinserted.

upward, it pulls the locking bolts in. The bolts are attached to pins, which ride up a slanted cutout in the vertical bar. This withdraws these long bolts along the side of the door. One of the bolts is shown also in *photograph 8*.

Below the combination lock is the large counterweight. This solid piece of metal is attached to a metal bar that is then attached to the opening handle spindle. The outer part of the handle cam

is a large gear. This rack operates the pinion that is attached to the bolt bar. This is also shown.

When the combination is dialed, the weighted bar helps raise the large vertical bolt bar to withdraw the bolts. When the weight is at the bottom, it keeps the bolts into the safe door. After the door is closed, the handle can be turned which lowers the vertical bolt bar and raises the counterweight and locks the door.

This may be why these safes sometimes fail. There is a little give in the bolt system so the handle can be turned enough to activate the counter weight. With the help of the counterweight, the lock bolt on both mechanical as well as electronic combination locks can be bumped and hammered around, with the result that the lock may not work. On this unit, the problem was no combination. On others I have worked on, there were lock failures on fairly new safes.

Photograph 9, shows the back cover of the lock removed. Just to the left of the combination lock body at the centerline is a small back dot on the mounting plate. This dot is really an Allen-headed setscrew, which holds the hardplate in place. Instead of just putting in a taper pin, we first loosened the screw and removed the hardplate. (See *Photograph 10*.)

After removing the hardplate, just flip it or reverse its position and reinsert it into the door. This puts a piece of non-drilled hardplate under the hole that you just drilled. The replaced hardplate position is shown in *photograph 11*. Repair or replace the combination lock and seal the door. The total time for the job is just over 1-hour including opening and repair. It is easy to do in a machine shop, not so easy out on the job. Be sure you charge enough for your services and prosper. **TRI**

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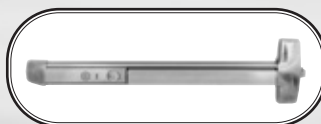
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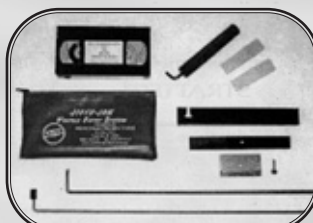
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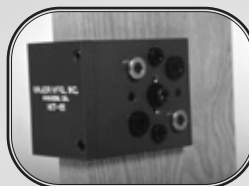
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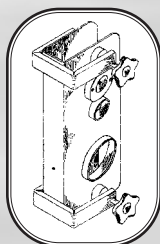
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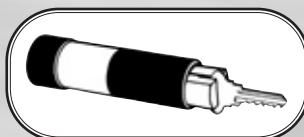
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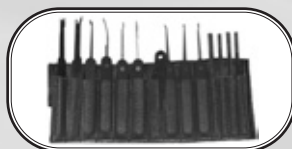
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**Tips Start
on Next Page**



**JET KEY BLANKS
WINNER:
GM Glove Box Tip**

The cylinder in the GM squeeze type glovebox lock can be very difficult to remove, if you do not have a special tool designed to spread the clips. I do not. So, I made one.

I took a snap-ring type pliers with a forty-five degree end and filed each tip so it was slightly flat like a small screwdriver. These tips can now be pushed between the clips and the cylinder. The clips can then be spread like an outside snap ring.

I placed the glovebox lock face down on an open vise. I then insert the tips of the pliers between the cylinder and the clips. When the handles of the pliers are squeezed the clips are forced apart. All that is left to do is remove the plug and read the wafers.

*Bobs Lock Shop
Ontario, Canada*



**WEDGEKO KEY
EXTRACTOR WINNER:
Silca Bravo and
Best/Falcon**

We recently purchased a Silca Bravo key machine, which I am very happy with except for one thing. In the instruction manual it says to use jaw "A" to cut the Best style keys using tip stop #0402301 BA in the last slot on the jaws. (See figure 1.)

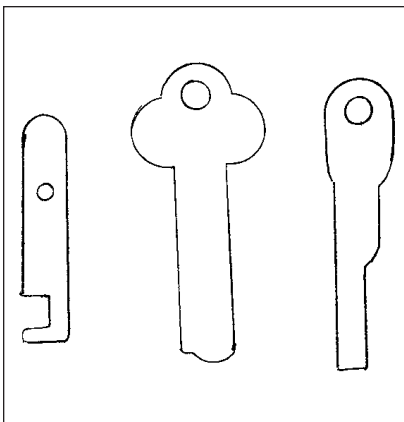


Figure 1.

The problem is when using jaw "A", it doesn't hold all the keyways straight; they tend to

A Few Words From Jake...

Y'all have heard the old saying about time flying when you're having fun, right? Well, I guess I have to admit that the last ten years of doing this column really have been fun! Yes, there have been times when I had to struggle to meet a deadline, and there have been times when I didn't really have enough tips to get a column done and had to really scramble to make that month's column. Yet, somehow through the good times and the slow times, you the tip providers, have always come through for me.

In the process, I've learned a lot and I hope have put the information in the hands of others that have learned from it also. Actually, I know I have. I couldn't have if you had not been there to send me a steady stream of great ideas.

So, to each of you who has helped me look good and helped me to generate a great column in the past, I'm asking you to stick with me and see if we can't make it even better in the future.

For those of you who have been meaning to send in a tip—do it now! I can assure that I as well as others will certainly appreciate it.

See y'all next month.



**by Jake
Jakubowski**

angle down. I found that using jaw "C" holds them in securely. You could use the same tip stop as recommended in the instructions, but I found that is not easy to insert and keep in place. If you put it in the middle slot you have to pull up on it to set the blank; and if cutting a 7-pin key it doesn't cut the first cut correctly. If you put it in the last slot you have to pull up on it and it comes out of the slot on the bottom of the jaw.

What I did was take an Iico safe deposit key blank #1323L and altered it. The thickness is perfect; all I did was to cut the tip so it is straight. I then ground down the head of the blank so it doesn't interfere with the cutter shield. Next I cut the front of the blank down to a height of $\frac{3}{16}$ ". I then cut the rest of the blade down to $\frac{5}{16}$ " until I got to the head. This height can be whatever you choose, as it doesn't interfere with the tip of the key.

The final product is shown to the right in the illustration. Now when cutting a Best key all I do is

turn the vise to jaw "C" put the tip stop in until it bottoms out, set in the key and blank and cut. I find this much easier to do this way than to follow the instructions in the manual, especially when cutting a wide grooved key.

*Joey Panico
New York*



**STRATTEC WINNER:
Club Removal and
Spring Steel Tip**

Here's yet another use for those steel inserts from wiper blades.

I've had numerous calls over the years to remove steering wheel "clubs", usually the pick resistant four-sided key variety due to their ability to lock without the necessity of using a key to lock it.

My technique uses a Slim-Jim I made from the wiper blade steel that I insert down the shaft alongside the locking bar. Because of the ratcheting spring latch design, I can hook the latch and by manipulating the bar, the

locking section slides in past the latch one stop at a time. It only takes two or three stops to have it short enough to remove. The best part is it's in perfect working order should the key turn up later!

This works on broken ones as well, where the cylinder turns but doesn't retract the latch. So put away your drill bits and bar busters, you'll now be opening these in seconds. The original "Club" is deadlocking, but easily picked the conventional way.

How many times has the only thing you need to repair a patio lock or grip set handle been a little piece of spring steel?

My favorite (free) source for this is the return spring from a lawnmower pull start rope. It's the perfect width for most purposes and one old mower will keep you in springs for years. For different sizes you can try other sizes of motors from string trimmers up to Roto-tillers. Be careful when removing them though, they don't call them springs for nothing! While you're at the scrap yard, pick up old wheel bearings and remove the balls for safe door repairs.

*James Unsworth
SBC, Canada*



**HPC WINNER:
Threshold
Installation**

I attended a Markar class years ago; and the speaker suggested that we as locksmiths look beyond the key lock and look at the total opening as a source for income. I think a locksmith makes a fantastic doorman, but a doorman makes a lousy locksmith.

I do not hesitate now to bid on small door jobs. There is a lot to be had for the not so faint of heart. The big outfits do not want the small jobs. So there is a wonderful market out there for someone who simply has to learn

how to measure hinge dimensions for replacement doors.

Anyway, part of my "Total Opening" service is installing thresholds. Sometimes when you install a threshold you have to install it over carpet. That means you have to drill down through the carpet for your anchor bolts, or screws.

The problem that will often come up is that your drill bit snags the carpet and starts to unravel one or two threads across the room. Don't ask me how I know!

I found a unique solution for this problem. Just before I drill my hole I take a small butane torch and shoot the flame down the hole in the threshold. This melts the carpet together and puts a stop to the "run away carpet syndrome".

*Mark Rankin
California*



**SARGENT &
GREENLEAF
WINNER:
Easy Way To Learn
Impressioning**

Take a mortise cylinder with working keys. Disassemble it and replace one existing pin with one that is .035" longer. Place the cylinder firmly in a vise. You will destroy the threads unless you have a mortise jig to hold it.

Reassemble the cylinder. Then take the original working key and turn to bind, and then bump up. Release, turn the other direction, again to bind, and bump down. (Note: bumping up and down repeatedly will not help—once you bump the pin, it will move slightly, and will not impression again because it has moved just a little by the "bump").

Take the key out. You know what position the impression will be (where the pin was replaced), so look to see an impression. File a few light strokes with your rat-tail or



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pippin file, removing only the shiny bright impression mark. Repeat until the plug rotates in the cylinder.

Then do the same thing, but replace two pins with longer ones. Remember this: "bumping" up and down repeatedly will only unnecessarily weaken your impressing blank. Once you complete this step proceed to three chambers, then four, and then five. Soon you will be impressing five and six pin cylinders quickly and accurately.

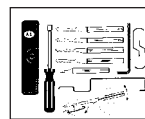
Next, do the same thing with a wafer cam lock...except, do not replace the wafer. Instead, cut a key by code with one position purposely higher.

With both pin tumbler, and wafer tumbler cylinders, do not be afraid (or embarrassed) to use a magnifying headset. Most often the original "impressions" will be very small and not too clear, but they will be there and you can use all the help you can get.

Unless you are interrupted, you will impression several cylinders in as little as a half hour. Keep in mind that this is a learning experience. After practicing in your shop under learning conditions, the real life in field jobs will come easily and with much self-satisfaction!

A senior police officer friend once told me that a new member of the police force would not truly be a "cop" until he has had his nose broken twice! Well, to be a locksmith that is good at impressing, you will break at least two blanks off while working for a customer. That is called "experience." All good locksmiths will have something go wrong now and then. Breaking off a key blank while impressing is not a sign of being bad at impressing, just that you were probably in too much of a hurry.

*John Dorsey, CML, CPS, CFL
Wisconsin*



**A-1 SECURITY
PRODUCTS WINNER:
Perfect Pin
Selector**

As an institutional locksmith, sometimes I have to key several cylinders or cores to the same key. I use the new Glad Press and Seal plastic wrap and cover the pin tray sealing all the bins. I then cut out openings for only the pins I will be using.

Having the other bins covered helps to select the proper pins, eliminates the possible cross contamination of other pins when accidentally dropping pins, and prevents over spills when refilling the pin bins. It can also be a good teaching tool for new locksmiths. This is useful when using original pins and they all are the same color.

*Al Jacobson
Wisconsin*



**ILCO KEYBLANKS
WINNER:
Torx Tool Trick**

I do not know if this tip has ever come to you guys, but I had to tear down a 1999 Dodge Ram 1500 steering column recently. To my surprise I did not have a #20 Torx driver long enough to reach the screws, so I took my Dremel and made a slot in the butt end of my #20 Torx bit. I then used a 3/16 craftsman flat screwdriver, inserted in the slot to turn the Torx screw.

It worked out perfectly! I hope this tip helps someone as it has helped me.

*Bruce Horne
Florida*



**KEEDEK WINNER:
ILCO Tubular Key
Modification**

I recently acquired and refurbished an old Ilco 381D tubular key machine. This device can cut Ace-type keys by code or duplication if the original is first decoded. It is similar to the earlier Ilco 181D and Keil No. 9. All of which are no longer in

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production, but were made for decades and many are still in daily use. (See figure 2.)

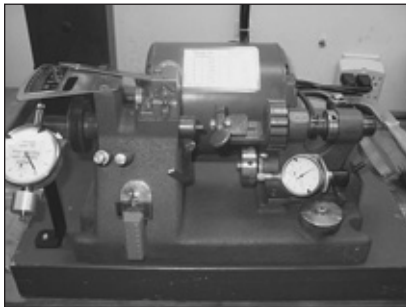


Figure 2.

On this machine the depth of a cut is determined by turning the Turret Stop (depth nut), until the desired depth number appears under the cut position pointer. You then move the blank into the end mill cutter by pulling the feed handle to the left. In this respect, it operates much like the venerable Framon #1 and #2 code machines.

We soon discovered that the depth numbers incised into the turret stop were not quite accurate for Chicago Ace depths

and that other manufacturers such as Fort use slightly different depths of cut in their tubular locks. To alleviate this discrepancy, we came up with a simple solution.

I mounted a small machinists dial indicator to the Ilco in such a way that the position of the turret stop is now displayed to within .001" accuracy. The stop can now be set to the precise depth of cut desired without any guesswork.

The indicator selected has a dial diameter of about 1-1/2" and a measuring range or travel of 0.250" with the continuous analog dial reading 0-100 in 0.001" increments. The indicator was slightly modified by inserting a small compression spring under the stem cap. In this reverse application the cap presses lightly against the back of the turret stop and very accurately reflects its movement when turned. The contact point on the bottom of the indicator, usually used for measurement, is not utilized.

The dial indicator is retained with a 6-32 set screw in a 3/8" ID bronze flange bearing, pressed into a small steel "L" bracket, which is bolted to the turret casting of the machine. This single drilled hole is the only modification to the key machine itself. To make a cut, the turret stop is first turned to the start position and the dial indicator zeroed by rotating the bezel. As the turret stop is turned, the exact depth of cut can be read on the dial indicator face. Once the desired depth is set, just pull the feed handle to make the cut. The indicator used—Enco import model 605-4010—was sourced from the www.use-enco.com web site for under ten dollars. The other dial seen at the left of the machine is a Framon #TKMS451 which is not necessary, but we added it to more accurately decode original keys and check for machine accuracy of cut duplicates.

We use these depths for Chicago, Ace and American:



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1=.015, 2=.031, 3=.046, 4=.062, 5=.077, 6=.093, 7=.108.

And these for Fort Gem and Apex: 0=.017, 1=.033, 2=.048, 3=.064, 4=.079, 5=.095, 6=.111.

*Peter P. Schifferli
New York*



**TECH TRAIN
TRAINING VIDEO
WINNER:
Progressioning
Trick**

When making a key for the trunk or door locks for GM autos, I have found a method that is

often faster than using the GM progression chart.

When progressing a door key from the glove box cuts of 3-2-2-3, the possibilities by progression are— First key: 11-31-42-53-55. Second key: 13-33-35. Third key: 22-24-44. However, by using Code Source, you will find when you go to the code series of the vehicle the following possibilities: 11-31-42-53. In other words, you should have a working key with the first progressed key. This saves time and key blanks.

This also works on Ford 8-cut systems when making an ignition key from the door cylinder cuts. Here's an example for code series 0001X. For door cuts 1-3-2-1-2-1 with a progression chart you have possibilities of the first key being 12-13-23-33. Second key: 22-24-34-35. Third key: 32. With Code Source go to code series 0001X-1706X and find the bitting that matches to door cuts. With door cuts 1-3-2-1-2-1 the possibilities are 12-34.

This will not work on Ford 10-cut systems.

*Richard C. Robbins
Idaho*



**SIEVEKING
PRODUCTS GM E-Z
WHEEL PULLER
WINNER:
Lexus Trunk
Opening**

I worked on a 2003 Lexus ES300 where the keys were locked in the trunk. One local locksmith said you had to get keys from Lexus, One said you had to drill door lock, and Lexus said you had to get keys from a Lexus Dealer I opened the vehicle with an under-the-window tool, then prepared to pull the panel and hot-wire the security system in the door.

On the driver door there was a plastic access port. Once removed it allowed access to a T-30 headed screw that once removed allowed for the easy removal of the driver door cylinder (similar to the old VW door handles, but only cylinder to be removed on the Lexus). I inserted a #3 Phillips screwdriver and activated the linkage security switch by rotating the switch counter-clockwise, clockwise, counter-clockwise then clockwise. The alarm was deactivated which allowed the trunk release to function. The customer was thoroughly impressed.

*Jeffrey Hula
Virginia*

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PRODUCTS
WINNER:
Rolling On**

As I read your November column, I was reminded of a use

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that I have for plastic rod in roller form.

In my part of the country I find a lot of Roller catches. Many have a rubber roller that will harden and crack with age and exposure to the extreme summer heat.

I use a 5/8" diameter plastic rod (Sold by ENCO—1-800-USE-ENCO) called Natural Acetyl, or Delrin.

I cut a piece that is 3/4" long, and drill a #10 hole through the center. (See figure 3.) Then I simply place the new plastic roller on the old roller catch and charge accordingly.

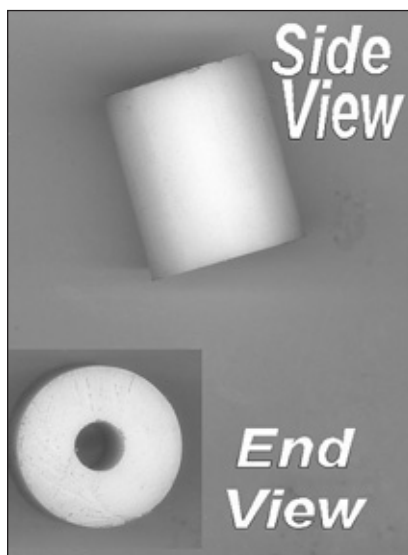


Figure 3.

My "repair" costs considerably less then a new latch would.

Bill Weingard
Arizona



LAGARD WINNER:
**Mortise Cylinder
Removal Tool:**

We have all encountered the stubborn mortise cylinder that practically refuses to come out of the lock. On Adams Rite locks, I loosen the mounting screws to see if that loosens the cylinder any before resorting to more aggressive measures.

On gate locks and hollow metal doors, there's often little choice but to get out the Vise-Grips® or Chancelocks® and twist

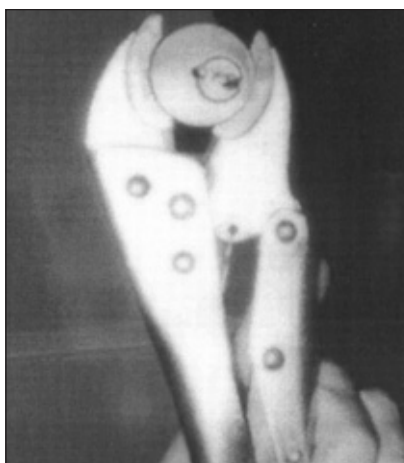


Figure 4.

the cylinder out of the lock. Of course, you frequently end up damaging the cylinder face (or ripping it right off!)

I modified an old pair of Vise-Grips® that allows me to remove those stubborn cylinders without damaging the scalp, or cylinder. I simply used a round file to file down the teeth on the Vise-Grips. (See figure 4.) Works like a charm.

Larry Bors
Oklahoma

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HES is moving on up to a brand spanking new facility. The new location has double the office space with much greater handling capacity. They can now be contacted at 22630 N. 17th Ave., Phoenix, AZ 85027.

Mayflower Stocks Schlage Cobra Locksets

The attractive electronic-cylindrical pushbutton lock provides for up to 100 different user codes and allows for the easy addition of more codes. It is available in a number of finishes and two lever styles. Cobra takes but $\frac{2}{3}$ the space of other programmable locks and features a built-in electronic passage function, a 2 to 3 year battery life and a concealed emergency key.

For more information contact Mayflower at (800) 221-2052, Fax: (718) 789-8346.

CCL SearchAlert Luggage Security Products for TSA Inspections

New SearchAlert re-settable combination lock was designed with a security feature that allows TSA agents, using a secured access device, the ability to open the SearchAlert lock; without destroying the lock.

Once TSA agents determine that a piece of luggage needs to be hand searched following an electronic screening. The

TSA agent will use the SearchAlert secured access device to open the SearchAlert lock. This is the time when the Security Window will change color from Green to Red. The TSA agent will hand search the bag, place a TSA Notification of Baggage Inspection inside the bag, seal the bag with a TSA security seal, and relock the SearchAlert lock. However, the Security Window will remain the color red indicating the lock has been opened and relocked.

For more information contact CCL at (800) 733-8588, fax (847) 537-1881.

Benitez joins DORMA as architectural projects consultant

Valerie Benitez has joined DORMA Group North America as an architectural projects consultant in the New York and New England markets. Benitez will work with architects and specifiers to promote the integration of DORMA's broad product lines. Which include architectural hardware, automatic doors, glass fittings and walls, revolving doors and operable partitions into their building plans. Before joining DORMA, Benitez worked at Gensler and the Rockwell Group in New York City.

Perma-Vault Names Sales Representatives

Perma-Vault Safe Company has named sales representatives to handle sales to

distributors in most of the United States.

Jim Randall and Barry Coffman of J. Randall & Associates will handle Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. Randall can be reached at 480-654-8714; Coffman can be reached at 626-810-7337.

Sam Haggard of Luddy, Haggard and Associates will handle Texas, Oklahoma, Arkansas, Louisiana, Mississippi and western Tennessee. He can be reached at 972-382-8575.

Fred Coppolla of Advanced Security Systems LLC will represent the company in Georgia and Florida. He can be reached at 954-499-5874.

The Mid-Atlantic and Northeast regions will be represented by Irene Szoke. She can be reached at Perma-Vault's headquarters in Warminster, PA, 800-662-3360.

High Tech Tools Moves

High Tech Tools has moved. Their new address is 1628 NW 28th Street, Miami, FL 33142. The toll-free phone is 800-323-8324, local phone is 305-635-1011, fax/phone is 305-635-1015.

Kimball Furniture Key Blank

Blackhawk Products is making available to distributors a new K1

Kimball office furniture key blank for code series 001-125.



For more information contact your local distributor or Blackhawk Products at: Phone: (970) 882-7191; Fax: (970) 882-7228.

Homeland Security Directory

Grey House Publishing announces the publication of the First Edition of The Grey House Homeland Security Directory. This directory is 700 pages and includes 2621 listings. It includes 1175 informative profiles of Federal and State agencies, 1166 private company profiles, along with the names of 11285 key contacts, and 280 homeland security industry resources.

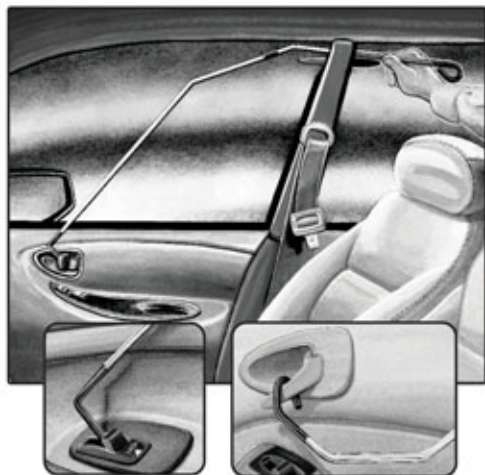
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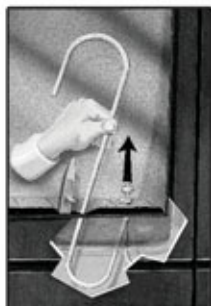


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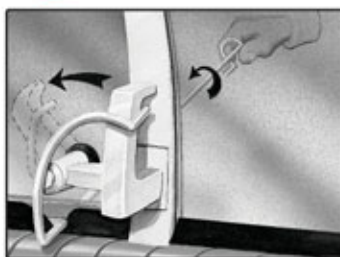
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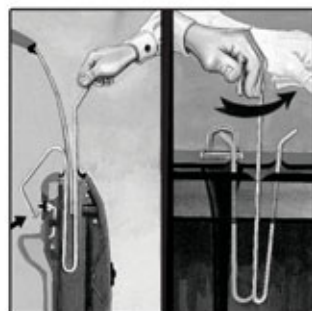
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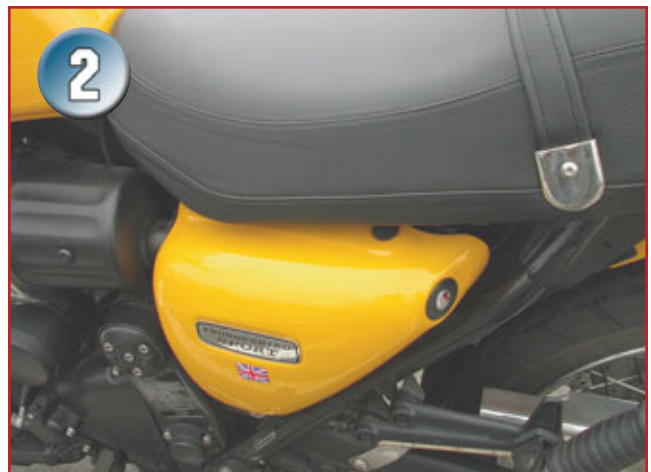


1998 TRIUMPH Thunderbird Sport

by John Blankenship



This bike is styled to resemble the Triumph Thunderbird of the 1960's & '70's while being powered by a modern 900cc 3-cylinder engine and stopped by disk brakes. It is easy to originate a key for this bike using the seat lock.



It appears that the left side cover is locked on but it is the seat lock. You do not have to pick the lock to remove and disassemble it.

To unlock the seat, turn the plug 45-degrees counter-clockwise. Lift the rear of the seat before you let go of the key of it will spring back to the locked position. Despite its appearance



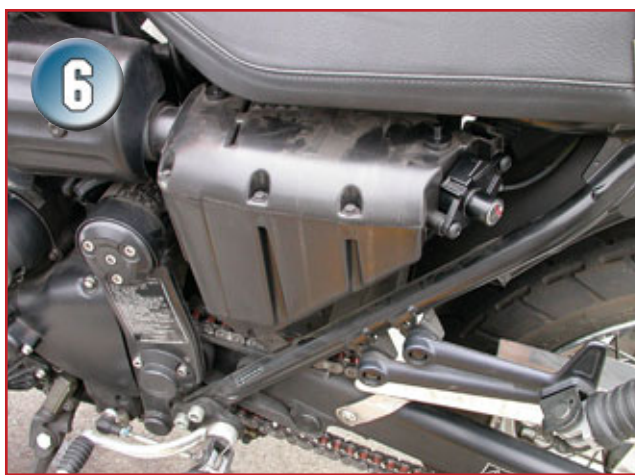
this is not a sidebar lock; it is a wafer tumbler lock with a unique design.



Use a 5.5mm hex key to remove the bolt at the bottom of the side cover.



Lift the side cover off the two posts that secure it on the top. The right side is shown removed from the post so now just lift and remove the left side to completely remove it from the motorcycle.



The side cover has been removed. A cable connects the seat lock to the seat latch.

Use a T30 Torx driver to remove the two bolts that secure the seat lock.



Pop the end of the cable housing out the rear of the lock housing and then slide the cable out of the slot in the tailpiece.

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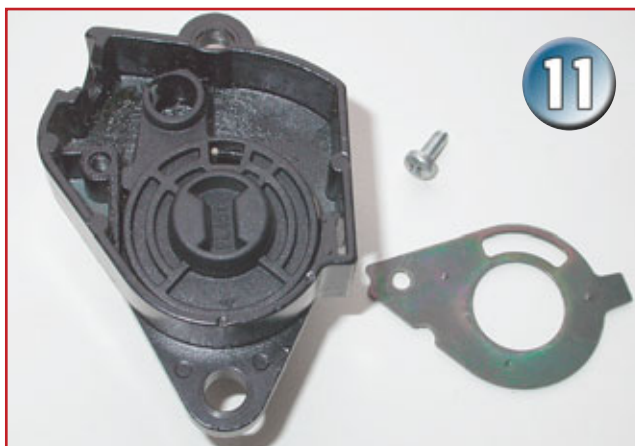


9
The cable housing and cable are shown removed. Now you can take the lock to a bench.

Pay attention to how the end of the return spring is inserted into the window in the tailpiece and then remove the tailpiece.



10
The cover plate is secured by a small Phillips screw on one end, and the other end has a tab that is inserted into a slot in the housing. Remove the screw and remove the cover plate.



11

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OID-4/02



The tailpiece has been removed. When I reassembled it, I used a dental pick to pull the end of the return spring around until it could be inserted into the window in the tailpiece.



The retainer can be seen on the right side of the plug. Depress it and push the plug out the front. You do not have to be concerned about the wafers falling or springing out.



The seat lock contains all six wafer tumblers and the wafer retainer. A ZD22RBP blank inserted into the keyway shows the cuts are 322311. Before you can remove the wafers you need to remove the facecap, dust shutter, and tiny brass rod that runs through the center of the wafers.



A code cut ZD22RBP with cuts of 322311 works both of the locks on the bike. A reverse search revealed that the code is 8925.



When you insert the seat lock plug back into the cylinder, insert the key and push the plug in with the retainer aligned with the wide slot at the 10 o'clock position. This slot has a ramp that pushes the retainer back into the plug. Once the plug is all the way in, turn it clockwise to the top slot and remove the key.

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This view from the drivers seat shows the ignition/steering lock located between the handlebars and instrument panel. This is a good lock to impression because it marks the blank good and the wafers are strong. Do not push the plug in while impressing; it will not turn while it is pushed in.

The lock is shown in the LOCK (steering locked) position. Turn the plug 90 degrees clockwise to the OFF (ignition OFF) position or a little farther to the ON (ignition on) position. You need to push the plug in and allow it to spring back out before you can turn it from OFF to LOCK. You also have to turn the steering all the way to the left or right before you can lock the steering. A slight turn counterclockwise to the P position turns the parking lights on.

INL

Codes: 8001-9554

Blank: Silca ZD16RP, ZD22RBP, ZD23RCP or ZD24RDP

Spacing: 1=.146, 2=.256, 3=.366, 4=.476, 5=.587, 6=.697

Depths: 1=.310, 2=.281, 3=.252, 4=.224

Note: Most code programs show the following depths because these codes first came out using the Silca ZD10 blank, which is .301 wide.

Depths: 1=.301, 2=.276, 3=.250, 4=.224

DSD: 735

Tumbler Locations: 1 2 3 4 5 6

Ignition: X X X X X X

Seat: X X X X X X



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by PRO-LOK®



THE NEED:

Ever since the invention of the pin tumbler cylinder, the need for accurate cutting of keys has been obvious. We as lock professionals are expected to be able to cut keys quickly and accurately every time, even if the local hardware store is not held to the same standard. I don't think we would want it any other way.

As simple as cutting a key seems to be, our reputation can rise or fall on whether we can do the job as advertised. How often have you heard someone say, "I have taken this to everyone else in town and they can't cut me a key that will work." I don't like the idea that they didn't think of me first, but it is a fact we have to live with daily. If you can cut the key that no one else can do, they are going to tell their friends and anyone within earshot just what you did. The same is true if you can't cut the key. Which advertisement do you want getting out into the public? I prefer the positive one.

Many manufacturers make key machines and if they are maintained, they will all do a very good job with the run of the mill keys. Accuracy is important and the machines require careful attention to maintain that level of quality. All duplicating machines use the copy method. By that, I mean you place the key to be copied in one vise and the blank to be cut in the other vise and you copy the key by following the cuts. Not a difficult job in most cases.

Some keys are a lot harder to copy than others, be it because they are hard

to get in the vise jaws or because they require more accurate cutting than the average key. Some brands have both factors going for them and the Best/Falcon IC keys are just such an animal.

THE ANSWER:

PRO-LOK® has a tool that answers the call for accuracy and ease of clamping. That tool is the BLUE PUNCH KEY MACHINE model BP201IC, sometimes called the "Kurchunk" Machine because of the sound it makes when cutting the key.

The BLUE PUNCH MACHINE is a dedicated machine, meaning that it is intended to cut just one brand of key, and designed to produce factory original keys with the speed of a duplicator. It is really more of a code cutting machine in a punch format.

The machine is set at the factory to provide automatic spacing and depth for that brand of key. Fast and easy to use, this machine is precision engineered to the tightest tolerances. It is portable and hand operated so no electrical outlet is needed.

USING THE MACHINE:

The working parts of the machine include a cutter manufactured to match the original for angle, a lever that pushes the cutter through the blank, and a code bar to control the depth of the cut.

A key is made by sliding the spacer bar as far to the right as possible and placing the blank into the vise. Clamp the

blank in place by using the L handle and you are ready to begin cutting the key.

You will need to know the cuts of the key you are making, so decoding the original key will be necessary. To facilitate that, a depth card is at the bottom of the machine.

With the depths now in hand, simply slide the code bar to the marked depth and push the lever. The cut will be made and when you release the bar the blank will automatically be positioned for the next cut. It's fast and clean, and you will not have to clean the key after cutting because the cut is punched, rather than sliced, leaving behind flash.

PRICE:

The PRO-LOK® BLUE PUNCH has a suggested retail of \$895, and several different machines are available for different key blanks. They run in cost from \$895 to \$1045.

CONCLUSION:

This is a very accurate, well-made machine. It is fast and clean and works as advertised. If you cut a large number of any one brand of keys and want to save time and assure accuracy, by all means look into the BLUE PUNCH MACHINE.

For more information contact:

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